3045-34

Area Wage Survey

Scranton-Wilkes-Barre, Pennsylvania, Metropolitan Area
August 1985

U.S. Department of Labor
Bureau of Labor Statistics

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U.S. Department of Labor
Ann McLaughlin, Secretary

Bureau of Labor Statistics
Janet L. Norwood, Commissioner
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Introduction

The Bureau of Labor Statistics is restructuring its area wage survey program to reflect changes in the number and geographic boundaries of the Nation's metropolitan statistical areas. In place of annual studies of 70 areas, the new program, when fully implemented in 1990, will cover 32 areas on an annual basis and two groups of 29 areas in alternate years.

This is 1 of the 58 areas being surveyed once every two years. While occupational earnings are presented biennially (A-series tables), information on establishment practices and employee benefits (B-series tables) is presented every fourth year, when Bureau field representatives obtain such data during personal visits to respondents.

A major consideration in the area wage survey program is the need to describe the level and movement of wages in a variety of labor markets, through the analysis of (1) the level and distribution of wages by occupation, and (2) the movement of wages by occupational category and skill level. The program develops information that may be used for many purposes, including wage and salary administration, collective bargaining, and assistance in determining plant location. Survey results also are used by the U.S. Department of Labor to make wage determinations under the Service Contract Act of 1965.

Earnings

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. Where posssible, occupations with related duties (e.g. accounting clerks and payroll clerks) are clustered to facilitate comparison. The occupations are defined in appendix B.

Table A-7 provides indexes and percent changes in average hourly earnings for office clerical workers, electronic data processing workers, industrial nurses, skilled maintenance trades workers, and unskilled plant workers. Where posaible, data are presented for all industries and for manufacturing and nonmanufacturing separately. Data are not presented for skilled maintenance workers in nonmanufacturing because the number of workers employed in this occupational group in nonmanufacturing is too small to warrant separate presentation. This table provides a measure of wage trends after elimination of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Tables A-8 through A-11 provide measures of pay relationships in establishments. These measures may differ considerably from the pay relationships of overall area averages published in tables A-1 through A-6. See appendix A for details.

Establishment practices and benefits

The B-series tables present information on minimum entrance salaries for inexperienced typists and clerks; late-shift pay provisions and practices for production and related workers in manufacturing; and data separately for production and related workers and office workers on scheduled weekly hours and days of first-shift workers; paid holidays; paid vacations; insurance, health, and retirement plan provisions; health plan participation; and other selected benefits.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program. It provides information on the scope of the area survey, the area's industrial composition in manufacturing, and labor-management agreement coverage.

Appendix B provides job descriptions used by Bureau field representatives to classify workers by occupation.

NOTE: The Scranton–Wilkes-Barre area was formerly surveyed as the Northeast Pennsylvania Metropolitan Area, which did not include Columbia or Wyoming Counties. See appendix table 1, footnote 1, for the definition of the new Scranton–Wilkes-Barre metropolitan area.

Changes in geographic scope and the introduction of improved statistical methods, particularly in the selection and weighting of sample establishments, may magnify differences that normally occur between the results of two sample surveys. To lessen the effects of such changes, analyses of trends should be limited to the data shown in table A-7. (See appendix A for details.)

Table A-1. Weekly earnings of office workers in Scranton–Wilkes-Barre, PA, August 1988

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[3]	Median[4]	Middle range[5]	Under 135	135 and under 140	140 – 160	160 – 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 and over
Secretarial and keyboarding occupations																										
Secretaries	392	38.5	322.00	303.00	259.00– 365.50	–	–	–	–	–	20	29	57	38	48	36	35	20	25	16	34	10	14	7	2	3
Manufacturing	170	39.5	339.00	326.00	281.00– 384.00	–	–	–	–	–	3	3	11	17	24	19	18	12	20	11	17	7	–	6	1	1
Nonmanufacturing	222	38.5	308.50	280.50	248.00– 343.00	–	–	–	–	–	17	26	46	21	22	17	17	8	5	5	17	3	14	1	1	2
Transportation and utilities	53	40.0	385.00	343.50	270.00– 513.50	–	–	–	–	–	–	3	4	7	4	5	2	3	1	1	3	2	14	1	1	2
Secretaries I	70	38.5	265.00	259.00	245.00– 286.00	–	–	–	–	–	7	10	27	6	6	4	4	2	2	–	–	–	–	–	–	–
Nonmanufacturing	51	37.5	253.50	257.50	236.50– 259.00	–	–	–	–	–	6	8	25	4	6	1	1	–	–	–	–	–	–	–	–	–
Secretaries II	112	38.5	298.00	281.00	243.50– 326.00	–	–	–	–	–	7	17	18	13	11	14	9	4	11	1	1	–	–	4	2	–
Manufacturing	52	39.0	333.50	313.50	276.00– 363.50	–	–	–	–	–	2	1	6	5	4	6	4	4	11	1	1	–	–	4	1	–
Nonmanufacturing	60	37.5	267.00	254.50	232.50– 291.00	–	–	–	–	–	5	16	12	8	7	6	5	–	–	–	–	–	–	–	1	–
Secretaries III	153	39.5	348.00	332.00	280.00– 404.50	–	–	–	–	–	5	2	10	16	21	15	18	8	8	7	19	6	14	–	–	2
Manufacturing	79	39.5	346.50	328.00	292.00– 404.00	–	–	–	–	–	–	–	1	6	18	6	9	4	4	6	13	7	–	–	–	1
Nonmanufacturing	74	39.0	349.50	336.00	265.00– 413.50	–	–	–	–	–	5	2	9	5	3	7	9	4	4	1	6	1	14	–	–	1
Transportation and utilities	29	40.0	426.50	513.50	332.00– 513.50	–	–	–	–	–	–	–	3	3	–	1	1	1	1	–	3	1	14	–	–	1
Secretaries IV	52	38.5	358.50	365.00	313.50– 403.00	–	–	–	–	–	1	–	2	3	6	3	4	6	4	7	12	2	–	2	–	–
Nonmanufacturing	33	38.5	358.00	350.00	313.00– 403.00	–	–	–	–	–	1	–	–	1	6	3	2	4	1	3	9	2	–	1	–	–
Typists	71	39.5	231.00	210.00	180.00– 275.00	–	–	–	7	26	4	8	5	5	7	–	1	5	3	–	–	–	–	–	–	–
Manufacturing	37	39.5	238.50	222.00	180.00– 280.00	–	–	–	6	12	–	3	–	3	7	–	–	3	3	–	–	–	–	–	–	–
Nonmanufacturing	34	39.0	222.50	205.00	190.00– 240.00	–	–	–	1	14	4	5	5	2	–	–	1	2	–	–	–	–	–	–	–	–
Typists I	51	39.5	223.50	199.50	182.00– 250.00	–	–	–	7	19	4	5	5	5	–	–	1	5	–	–	–	–	–	–	–	–
Nonmanufacturing	31	39.0	222.00	200.00	184.00– 244.50	–	–	–	1	14	4	2	5	2	–	–	1	2	–	–	–	–	–	–	–	–
Word processors	54	38.5	254.50	231.00	187.50– 275.00	–	–	–	–	–	17	2	11	7	4	3	1	–	2	2	–	2	3	–	–	–
Nonmanufacturing	37	39.0	277.50	240.50	220.00– 300.00	–	–	–	–	–	3	2	11	7	3	1	1	–	2	2	–	2	3	–	–	–
Word processors I	42	38.5	222.50	220.00	187.50– 240.00	–	–	–	–	–	17	2	11	5	3	3	1	–	–	–	–	–	–	–	–	–
Nonmanufacturing	25	39.0	234.50	230.50	220.00– 250.00	–	–	–	–	–	3	2	11	5	2	1	1	–	–	–	–	–	–	–	–	–
Key entry operators	449	39.5	247.50	230.00	202.00– 280.00	2	–	11	22	32	107	59	50	47	53	37	2	2	6	3	8	7	–	1	–	–
Manufacturing	145	39.5	251.50	243.50	221.00– 289.00	–	–	–	–	–	32	33	28	30	5	9	1	1	4	–	1	–	–	1	–	–
Nonmanufacturing	304	39.5	245.50	228.00	200.00– 286.00	2	–	11	22	32	75	26	22	17	48	28	1	1	2	3	7	7	–	–	–	–
Key entry operators I	370	39.5	230.00	224.50	200.00– 258.00	2	–	11	22	32	104	59	48	44	18	28	–	1	–	–	–	–	–	1	–	–
Manufacturing	134	39.5	244.50	240.00	221.00– 284.00	–	–	–	–	–	32	33	28	30	2	7	–	1	–	–	–	–	–	1	–	–
Nonmanufacturing	236	39.5	222.00	206.00	196.00– 249.50	2	–	11	22	32	72	26	20	14	16	21	–	–	–	–	–	–	–	–	–	–
Key entry operators II	79	39.5	328.00	296.00	260.00– 371.00	–	–	–	–	–	3	–	2	3	35	9	2	1	6	3	6	7	–	–	–	–
Nonmanufacturing	66	39.5	327.00	296.00	267.00– 368.00	–	–	–	–	–	3	–	2	3	32	7	1	1	2	3	7	7	–	–	–	–
Other clerical occupations																										
Accounting clerks	830	38.5	258.00	250.50	214.00– 288.50	6	–	7	34	82	91	59	212	92	77	61	41	31	9	10	5	7	3	3	–	–
Manufacturing	372	38.5	266.50	260.00	232.50– 300.00	–	–	–	11	23	34	30	83	52	45	32	20	22	8	9	3	–	–	–	–	–
Nonmanufacturing	458	38.5	249.50	241.00	206.00– 273.00	6	–	7	23	59	57	29	129	40	32	29	21	9	1	1	2	7	3	3	–	–
Transportation and utilities	50	40.0	338.00	293.50	270.50– 457.50	–	–	–	–	1	1	4	3	6	12	7	–	1	–	–	2	7	3	3	–	–
Accounting clerks I	154	38.5	224.50	212.00	199.00– 258.00	6	–	7	5	21	43	7	33	18	7	6	–	–	1	–	–	–	–	–	–	–
Manufacturing	78	37.5	248.50	252.00	211.50– 275.50	–	–	–	4	2	15	5	26	12	7	6	–	–	1	–	–	–	–	–	–	–
Nonmanufacturing	76	39.0	199.50	200.00	180.00– 212.00	6	–	7	1	19	28	2	7	6	–	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Scranton–Wilkes-Barre, PA, August 1988—Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean[1]	Median[1]	Middle range[1]	Under 135	135 and under 140	140 – 160	160 – 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 and over
Accounting clerks II	586	38.5	253.00	250.00	220.00– 281.00	–	–	–	29	61	46	46	153	73	69	48	20	13	4	3	3	–	–	–	–	–
Manufacturing	256	39.0	266.50	260.00	233.00– 297.50	–	–	–	7	21	17	21	55	40	39	23	17	8	4	3	2	–	–	–	–	–
Nonmanufacturing	310	38.5	242.50	249.00	213.00– 268.00	–	–	–	22	40	29	27	98	33	31	23	3	4	–	–	–	–	–	–	–	–
Transportation and utilities	27	40.0	279.50	285.00	260.00– 296.00	–	–	–	–	–	–	3	3	4	12	5	–	–	–	–	–	–	–	–	–	–
Accounting clerks III	99	38.0	317.50	332.50	250.00– 341.50	–	–	–	–	–	2	4	26	1	1	9	21	10	3	6	–	4	3	–	–	–
Manufacturing	37	38.0	326.00	341.50	307.00– 362.00	–	–	–	–	–	2	4	2	–	–	3	3	13	3	7	–	4	3	–	–	–
Nonmanufacturing	61	37.5	312.50	318.00	241.00– 336.00	–	–	–	–	–	–	–	24	1	1	6	18	3	–	1	–	4	3	–	–	–
Payroll clerks	123	38.0	297.50	287.50	251.50– 321.50	–	–	3	1	–	14	9	6	16	20	17	13	9	1	–	6	3	4	1	–	–
Manufacturing	80	39.0	295.50	293.00	249.00– 320.50	–	–	–	–	–	11	6	3	3	17	17	7	6	1	–	5	1	–	1	–	–
Nonmanufacturing	43	38.5	301.00	278.50	257.00– 338.00	–	–	3	1	–	3	1	3	13	3	–	6	3	–	–	1	2	4	–	–	–
File clerks	180	38.0	215.50	225.00	192.00– 242.00	–	–	21	13	29	25	5	62	–	4	–	–	–	1	–	–	–	–	–	–	–
Nonmanufacturing	179	38.0	216.00	225.50	192.80– 242.00	–	–	21	11	29	25	5	62	–	4	–	–	–	1	–	–	–	–	–	–	–
File clerks I	160	38.5	215.50	241.00	192.80– 242.00	–	–	17	11	29	21	1	79	–	1	–	–	–	1	–	–	–	–	–	–	–
Nonmanufacturing	158	38.5	216.00	242.00	192.00– 242.00	–	–	17	9	29	21	1	79	–	1	–	–	–	1	–	–	–	–	–	–	–
Order clerks	264	39.5	327.00	300.00	245.00– 400.00	–	–	–	1	9	15	28	59	13	15	46	8	15	2	2	24	6	4	–	36	–
Manufacturing	169	39.5	361.50	326.50	249.50– 471.00	–	–	–	1	8	14	14	16	12	15	4	8	1	2	2	24	6	4	–	36	–
Order clerks I	111	39.5	252.50	245.00	236.50– 257.00	–	–	–	1	1	8	21	55	13	4	4	–	–	2	2	–	–	–	–	–	–
Manufacturing	52	39.5	263.00	257.00	236.50– 279.00	–	–	–	1	1	7	7	12	12	4	4	–	–	2	2	–	–	–	–	–	–
Order clerks II	173	39.5	375.00	340.00	300.00– 471.00	–	–	–	–	7	7	7	4	–	11	42	8	15	–	–	24	6	4	–	36	–
Manufacturing	117	39.5	405.00	400.00	288.00– 580.00	–	–	–	–	7	7	7	4	–	11	–	8	1	–	–	24	6	4	–	36	–
Switchboard operators	37	39.5	224.50	190.00	174.00– 250.00	–	–	–	12	7	4	3	3	2	2	–	1	–	–	2	–	–	1	–	–	–
Nonmanufacturing	36	39.5	215.00	190.00	174.00– 240.00	–	–	–	12	7	4	3	3	2	1	–	1	–	–	2	–	–	1	–	–	–
Switchboard operators-receptionists	180	39.0	235.00	225.00	190.50– 260.00	1	–	2	9	39	33	29	24	8	11	4	18	2	2	1	–	–	–	–	–	–
Manufacturing	116	39.5	247.00	232.50	216.00– 290.00	–	–	–	7	11	13	26	20	2	7	4	16	2	–	–	–	–	–	–	–	–
Nonmanufacturing	79	39.0	216.50	204.00	190.00– 228.00	1	–	2	2	28	20	3	4	6	4	–	–	–	2	1	–	–	–	–	–	–

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Scranton–Wilkes-Barre, PA, August 1988

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of --																			
			Mean[3]	Median[3]	Middle range[4]	180 and under 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 and over
Computer systems analysts	85	39.5	533.50	527.00	536.50– 715.00	–	–	–	–	–	–	–	–	–	7	–	2	1	–	1	3	14	8	9	9	*31
Manufacturing	41	39.5	561.00	560.50	480.50– 698.00	–	–	–	–	–	–	–	–	–	7	–	2	–	–	1	2	8	6	1	3	11
Nonmanufacturing	44	39.5	681.50	667.00	605.00– 754.50	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	6	2	8	6	20
Computer systems analysts II	33	39.5	629.50	622.50	552.00– 710.50	–	–	–	–	–	–	–	–	–	–	–	2	1	–	–	1	5	4	6	3	11
Computer systems analysts III	31	39.5	695.50	677.00	544.50– 780.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	6	3	2	4	17
Computer programmers	197	39.5	480.00	478.50	403.00– 550.50	–	–	–	1	–	3	7	1	14	14	6	18	12	9	14	29	28	19	11	4	9
Manufacturing	54	39.5	441.00	435.00	363.00– 519.00	–	–	–	–	–	1	2	1	9	3	3	7	1	2	5	7	6	7	–	–	–
Nonmanufacturing	143	39.5	495.00	486.50	420.00– 560.50	–	–	–	1	–	2	5	–	5	11	3	11	11	7	9	22	20	12	11	4	9
Transportation and utilities	71	40.0	499.50	504.00	438.00– 557.50	–	–	–	1	–	1	1	–	–	3	2	3	7	4	7	15	10	6	7	3	1
Computer programmers I	25	40.0	342.50	356.00	307.00– 365.50	–	–	–	1	–	3	7	–	2	6	–	6	–	–	–	–	–	–	–	–	–
Computer programmers II	91	39.0	434.50	432.00	382.00– 478.50	–	–	–	–	–	–	–	1	12	8	6	12	12	6	10	12	9	1	–	–	–
Manufacturing	30	39.0	421.00	399.50	342.50– 461.00	–	–	–	–	–	–	–	1	9	2	3	1	1	2	4	2	4	1	–	–	–
Nonmanufacturing	61	39.5	441.00	434.00	404.00– 478.50	–	–	–	–	–	–	–	–	3	6	3	11	11	6	6	10	5	–	–	–	–
Transportation and utilities	30	40.0	459.00	443.50	428.50– 480.50	–	–	–	–	–	–	–	–	–	–	2	3	7	4	5	7	2	–	–	–	–
Computer programmers III	77	39.5	567.50	557.50	509.50– 601.00	–	–	–	–	–	–	–	–	–	–	–	–	–	1	4	17	17	18	10	4	6
Nonmanufacturing	63	39.5	574.50	560.50	516.00– 606.50	–	–	–	–	–	–	–	–	–	–	–	–	–	1	3	12	15	12	10	4	6
Transportation and utilities	35	40.0	564.50	557.50	514.50– 606.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	8	8	6	7	3	1
Computer operators	186	39.5	315.00	307.00	244.00– 369.50	1	17	7	31	11	21	16	17	13	17	4	7	7	4	6	7	–	–	–	–	–
Manufacturing	69	39.5	296.50	296.50	244.00– 361.50	–	17	–	20	2	11	10	3	2	11	2	5	2	2	1	1	–	–	–	–	–
Nonmanufacturing	97	39.0	332.50	334.00	268.50– 371.50	1	–	7	11	9	10	6	14	11	6	2	2	5	2	5	6	–	–	–	–	–
Transportation and utilities	27	39.5	386.50	375.00	336.00– 458.00	–	–	–	–	–	5	1	1	5	2	1	1	3	2	4	2	–	–	–	–	–
Computer operators I	54	39.0	254.00	253.00	200.00– 283.00	–	17	6	7	7	9	2	2	1	1	1	1	–	–	–	–	–	–	–	–	–
Nonmanufacturing	27	39.0	275.00	262.50	242.50– 283.00	–	–	6	4	7	5	1	1	–	1	1	1	–	–	–	–	–	–	–	–	–
Computer operators II	115	39.5	327.00	325.00	268.50– 370.00	1	–	1	24	4	12	14	15	12	11	2	6	4	2	6	1	–	–	–	–	–
Manufacturing	54	39.5	312.50	304.00	244.00– 370.00	–	–	–	17	2	7	9	2	1	7	2	5	–	–	1	1	–	–	–	–	–
Nonmanufacturing	61	39.5	339.50	336.00	297.50– 370.00	1	–	1	7	2	5	5	13	11	4	–	1	4	2	5	–	–	–	–	–	–
Drafters	262	40.0	355.50	330.00	306.50– 393.00	–	3	–	3	7	40	50	51	16	18	18	7	14	7	7	11	6	5	1	–	–
Manufacturing	178	40.0	342.00	330.00	306.00– 382.50	–	2	–	–	2	33	40	46	14	7	12	2	4	4	–	4	6	1	1	–	–
Drafters II	86	40.0	299.50	298.50	285.50– 310.00	–	1	–	3	6	36	28	5	2	5	–	–	–	–	–	–	–	–	–	–	–
Manufacturing	66	40.0	305.00	304.00	290.50– 310.00	–	–	–	–	2	30	24	5	2	5	–	–	–	–	–	–	–	–	–	–	–
Drafters III	111	40.0	339.00	330.00	320.00– 353.50	–	–	–	–	1	4	22	46	14	9	10	3	–	2	–	–	–	–	–	–	–
Manufacturing	82	40.0	335.50	330.00	322.00– 340.00	–	–	–	–	–	3	16	41	12	2	6	–	–	2	–	–	–	–	–	–	–
Drafters IV	33	39.5	449.00	428.00	420.50– 470.50	–	–	–	–	–	–	–	–	–	–	6	2	11	2	4	4	4	–	–	–	–
Drafters V	30	40.0	483.50	485.00	420.00– 521.00	–	–	–	–	–	–	–	–	–	2	2	2	3	3	3	7	2	5	1	–	–
Electronics technicians	268	40.0	552.50	555.00	477.00– 667.50	–	–	–	–	–	–	–	14	1	11	5	3	13	14	24	24	35	14	5	102	3
Manufacturing	145	40.0	475.50	477.50	427.50– 525.00	–	–	–	–	–	–	–	14	–	10	4	3	13	14	24	23	18	14	3	4	1
Electronics technicians I	32	40.0	450.00	444.00	421.50– 477.50	–	–	–	–	–	–	–	–	–	2	4	2	8	3	11	–	1	–	1	–	–
Manufacturing	29	40.0	444.00	438.50	427.50– 477.50	–	–	–	–	–	–	–	–	–	1	4	2	8	3	11	–	–	–	–	–	–
Electronics technicians II	210	40.0	586.50	575.00	496.50– 667.50	–	–	–	–	–	–	–	14	1	9	1	1	5	6	12	24	24	12	1	98	2
Manufacturing	100	40.0	470.00	498.50	420.00– 526.50	–	–	–	–	–	–	–	14	–	9	–	1	5	6	12	23	18	12	–	–	–
Registered industrial nurses	34	39.0	446.50	480.50	400.00– 491.50	–	–	–	–	–	–	3	–	3	–	2	2	3	2	2	16	1	–	–	–	–
Manufacturing	32	39.0	447.00	488.00	386.00– 491.50	–	–	–	–	–	–	3	–	3	–	2	2	2	1	2	16	1	–	–	–	–

* Workers were distributed as follows: 10 at $680 to $720; 6 at $720 to $760; 5 at $760 to $800; 2 at $800 to $840; and 8 at $840 and over.

Also see footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Scranton–Wilkes-Barre, PA, August 1988

Sex,[4] occupation, and industry division	Number of workers	Average (mean[5])	
		Weekly hours[2] (standard)	Weekly earnings (in dollars)[3]
Office occupations – men			
Accounting clerks	67	39.5	273.50
Nonmanufacturing	50	39.0	264.00
Accounting clerks II	52	39.5	260.00
Order clerks	60	39.5	482.50
Office occupations – women			
Secretaries	391	38.5	322.00
Manufacturing	170	39.5	339.00
Nonmanufacturing	221	38.5	309.00
Transportation and utilities	59	40.0	385.00
Secretaries I	69	38.5	265.50
Nonmanufacturing	50	37.5	254.00
Secretaries II	112	38.5	298.00
Manufacturing	52	39.0	333.50
Nonmanufacturing	60	37.5	267.00
Secretaries III	153	39.5	348.00
Manufacturing	79	39.5	346.50
Nonmanufacturing	74	39.0	349.50
Transportation and utilities	29	40.0	426.50
Secretaries IV	52	38.5	358.50
Nonmanufacturing	33	38.5	358.00
Typists	69	39.5	227.50
Manufacturing	35	39.5	232.50
Nonmanufacturing	34	39.0	222.50
Typists I	49	39.5	218.50
Nonmanufacturing	31	39.0	222.00
Word processors	54	38.5	254.50
Nonmanufacturing	37	39.0	277.50
Word processors I	42	38.5	222.50
Nonmanufacturing	25	39.0	234.50
Key entry operators	417	39.5	248.00
Manufacturing	145	39.5	251.50
Nonmanufacturing	272	39.5	246.50
Key entry operators I	338	39.5	229.50
Manufacturing	134	39.5	244.50
Nonmanufacturing	204	39.5	219.50
Key entry operators II	79	39.5	328.00
Nonmanufacturing	68	39.5	327.00
Accounting clerks	763	38.5	257.00
Manufacturing	355	38.5	267.00
Nonmanufacturing	408	38.5	248.00
Transportation and utilities	45	40.0	327.50
Accounting clerks I	147	38.5	225.00
Manufacturing	77	37.5	247.00
Nonmanufacturing	70	39.0	200.50
Accounting clerks II	514	38.5	252.50
Manufacturing	241	39.0	264.00
Nonmanufacturing	273	38.5	242.00
Transportation and utilities	27	40.0	279.50
Accounting clerks III	93	38.0	316.50
Manufacturing	36	38.0	324.50
Nonmanufacturing	57	37.5	311.50
Payroll clerks	109	39.0	292.00
Manufacturing	67	39.5	286.50
Nonmanufacturing	42	38.5	296.50
File clerks	153	36.0	211.50
Nonmanufacturing	151	38.0	212.00
File clerks I	133	38.0	210.50
Nonmanufacturing	131	38.0	211.50
Order clerks	224	39.5	285.50
Manufacturing	110	39.5	294.50
Order clerks I	106	39.5	248.50
Manufacturing	48	39.0	256.50
Order clerks II	113	39.5	318.50
Manufacturing	62	39.5	329.50
Switchboard operators	34	39.5	217.50
Nonmanufacturing	32	39.5	206.00
Switchboard operator-receptionists	183	39.0	235.00
Manufacturing	110	39.5	247.00
Nonmanufacturing	73	39.0	216.50
Professional and technical occupations – men			
Computer systems analysts	62	39.5	671.00
Manufacturing	26	39.5	639.50
Nonmanufacturing	36	39.5	694.00
Computer systems analysts II	26	39.5	649.00
Computer systems analysts III	30	39.5	696.50
Computer programmers	137	39.5	489.00
Manufacturing	37	39.5	451.00
Nonmanufacturing	95	39.5	503.50
Transportation and utilities	43	40.0	520.00
Computer programmers II	62	39.0	432.50
Nonmanufacturing	41	39.5	438.50
Computer programmers III	57	39.5	569.00
Nonmanufacturing	44	39.5	578.00
Computer operators	75	39.0	362.00
Nonmanufacturing	53	39.0	360.00
Computer operators II	54	39.0	344.50
Nonmanufacturing	39	39.0	342.00
Drafters	251	40.0	375.00
Manufacturing	173	40.0	342.50
Drafters II	81	40.0	299.00
Manufacturing	65	40.0	305.00
Drafters III	107	40.0	338.50
Manufacturing	80	40.0	336.00
Drafters IV	32	39.5	449.00
Drafters V	29	40.0	487.00
Electronics technicians	261	40.0	551.50
Manufacturing	143	40.0	475.50
Electronics technicians I	29	40.0	445.00
Manufacturing	27	40.0	441.50
Electronics technicians II	206	40.0	565.00
Manufacturing	100	40.0	470.00
Professional and technical occupations – women			
Computer programmers	65	39.5	463.00
Nonmanufacturing	48	39.5	478.00
Transportation and utilities	28	40.0	467.50
Computer programmers II	29	39.5	436.50
Computer operators	111	39.5	283.50
Manufacturing	67	39.5	273.50
Nonmanufacturing	44	39.0	299.00
Computer operators I	47	39.0	243.00
Computer operators II	61	39.5	311.50
Manufacturing	39	39.5	296.50

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Scranton–Wilkes-Barre, PA, August 1988

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[2]	Median[3]	Middle range[4]	Under 9.00	9.00 and under 9.25	9.25 – 9.50	9.50 – 9.75	9.75 – 10.00	10.00 – 10.25	10.25 – 10.50	10.50 – 10.75	10.75 – 11.00	11.00 – 11.25	11.25 – 11.50	11.50 – 11.75	11.75 – 12.00	12.00 – 12.50	12.50 – 13.00	13.00 – 13.50	13.50 – 14.00	14.00 – 14.50	14.50 – 15.00	15.00 – 15.50	15.50 – 16.00	16.00 – 16.50	16.50 – 17.00
Maintenance electricians	298	11.54	10.85	10.14–11.94	13	4	5	14	34	42	18	17	4	10	30	25	19	13	–	–	1	–	–	12	–	–	37
Manufacturing	254	10.80	10.39	9.86–11.50	12	4	5	14	34	42	18	17	2	10	27	25	19	13	–	–	–	–	–	12	–	–	–
Maintenance machinists	222	10.84	10.97	10.33–11.94	* 24	–	–	10	15	–	18	32	39	3	9	11	42	4	10	2	2	1	–	–	–	–	–
Manufacturing	221	10.82	10.97	10.33–11.94	24	–	–	10	15	–	18	32	39	3	9	11	42	4	10	2	2	–	–	–	–	–	–
Maintenance mechanics (machinery)	349	10.53	10.88	9.29–11.84	* * 77	6	15	1	22	18	3	22	12	17	57	6	85	11	2	–	3	–	–	12	–	–	–
Manufacturing	346	10.50	10.88	9.29–11.94	77	6	15	1	22	18	3	22	12	17	57	6	85	11	2	–	–	–	–	12	–	–	–
Motor vehicle mechanics	219	12.23	10.63	10.04–15.06	7	–	14	–	20	22	2	57	–	–	–	5	–	1	2	–	10	5	2	44	27	1	–
Manufacturing	76	10.10	10.04	9.91–10.44	2	–	14	–	20	19	2	17	–	–	–	–	–	–	–	–	–	–	2	–	–	–	–
Nonmanufacturing	143	13.36	15.06	10.83–15.21	5	–	–	–	–	3	–	40	–	–	–	5	–	1	2	–	10	5	–	44	27	1	–
Transportation and utilities	137	13.43	15.06	10.83–15.21	5	–	–	–	–	3	–	40	–	–	–	–	–	–	2	–	10	5	–	44	27	1	–
General maintenance workers	662	9.86	9.79	8.50–11.14	# 259	31	4	34	26	92	30	4	–	17	11	30	–	17	56	7	34	–	7	3	–	–	–
Manufacturing	469	10.10	10.14	8.80–11.25	130	22	–	34	24	90	28	2	–	17	7	2	–	16	56	–	34	–	7	–	–	–	–
Nonmanufacturing	193	8.57	8.25	6.55–10.19	129	9	4	–	2	2	2	2	–	–	4	28	–	1	–	7	–	–	–	3	–	–	–
Transportation and utilities	29	9.48	6.75	6.40–13.18	16	–	–	–	1	–	1	–	–	–	–	–	–	1	–	7	–	–	–	3	–	–	–
Maintenance trades helpers	29	7.45	7.70	5.50– 9.61	# # 20	–	–	8	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Tool and die makers	136	12.50	12.63	10.77–14.01	7	–	–	–	10	8	2	6	7	–	10	–	2	13	16	1	–	23	–	31	–	–	–
Manufacturing	136	12.50	12.63	10.77–14.01	7	–	–	–	10	8	2	6	7	–	10	–	2	13	16	1	–	23	–	31	–	–	–
Stationary engineers	26	12.61	11.76	10.56–16.69	–	–	–	1	–	–	–	7	–	4	–	1	6	–	–	–	–	–	–	–	–	–	7

* Workers were distributed as follows: 3 at $7.00 to $7.25; 1 at $7.25 to $7.50; 7 at $8.00 to $8.25; 9 at $8.50 to $8.75; and 4 at $8.75 to $9.00.

* * Workers were distributed as follows: 21 under $8.00; 15 at $8.00 to $8.25; 7 at $8.25 to $8.50; 17 at $8.50 to $8.75; and 17 at $8.75 to $9.00.

\# Workers were distributed as follows: 60 under $6.25; 15 at $6.25 to $6.50; 20 at $6.50 to $6.75; 8 at $6.75 to $7.00; 12 at $7.00 to $7.25; 4 at $7.25 to $7.50; 3 at $7.50 to $7.75; 12 at $7.75 to $8.00; 15 at $8.00 to $8.25; 11 at $8.25 to $8.50; 27 at $8.50 to $8.75; and 72 at $8.75 to $9.00.

\# \# Workers were distributed as follows: 4 at $5.25 to $5.50; 4 at $5.50 to $5.75; 2 at $5.75 to $6.00; 4 at $6.25 to $6.50; 3 at $7.50 to $7.75; and 3 at $8.50 to $8.75.

Also see footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Scranton–Wilkes-Barre, PA, August 1988

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[2]	Median[2]	Middle range[3]	3.35 and under 3.50	3.50 – 4.00	4.00 – 4.50	4.50 – 5.00	5.00 – 5.50	5.50 – 6.00	6.00 – 6.50	6.50 – 7.00	7.00 – 7.50	7.50 – 8.00	8.00 – 8.50	8.50 – 9.00	9.00 – 9.50	9.50 – 10.00	10.00 – 10.50	10.50 – 11.00	11.00 – 11.50	11.50 – 12.00	12.00 – 12.50	12.50 – 13.00	13.00 – 14.00	14.00 – 15.00	15.00 – 16.00
Truckdrivers	872	11.52	10.77	8.52–15.45	–	–	–	–	15	–	23	19	56	71	32	21	29	32	101	44	64	14	9	1	6	6	326
Manufacturing	179	9.32	9.84	8.16–10.77	–	–	–	–	9	–	10	1	9	7	14	14	18	26	7	43	14	–	5	–	–	–	–
Nonmanufacturing	693	12.09	11.95	9.00–15.45	–	–	–	–	6	–	13	18	47	64	18	7	11	4	94	1	50	14	3	1	6	6	326
Transportation and utilities	412	14.18	15.45	15.07–15.45	–	–	–	–	–	–	10	13	4	3	15	–	3	2	1	–	3	12	3	1	6	6	326
Truckdrivers, medium truck	167	8.54	7.50	7.35–10.77	–	–	–	–	–	–	2	2	41	57	2	2	6	1	1	29	6	2	–	–	–	6	–
Manufacturing	49	9.80	10.77	8.85–10.77	–	–	–	–	–	–	–	1	1	7	2	2	6	1	–	29	–	–	–	–	–	–	–
Truckdrivers, heavy truck	158	9.04	9.84	8.20–10.10	–	–	–	–	7	–	17	6	3	4	12	8	6	27	50	12	3	–	–	–	3	–	–
Manufacturing	62	8.84	9.84	8.34– 9.84	–	–	–	–	7	–	8	–	–	–	2	8	2	25	–	12	–	–	–	–	–	–	–
Nonmanufacturing	96	9.16	10.10	8.20–10.10	–	–	–	–	–	–	9	6	3	4	10	2	4	2	50	–	3	–	–	–	3	–	–
Truckdrivers, tractor-trailer	279	12.49	11.77	10.10–15.07	–	–	–	–	–	–	1	–	10	–	6	7	7	4	43	1	55	12	5	1	5	–	120
Manufacturing	31	10.11	11.22	7.37–11.22	–	–	–	–	–	–	1	–	2	–	8	5	7	2	43	1	41	12	–	1	5	–	120
Nonmanufacturing	248	12.79	13.18	10.10–15.07	–	–	–	–	–	–	–	–	8	–	–	2	–	2	–	–	14	–	5	–	–	–	–
Shippers	169	8.18	8.08	7.45– 9.15	–	–	–	–	–	–	4	3	47	4	58	7	32	12	2	–	–	–	–	–	–	–	–
Manufacturing	161	8.18	8.08	7.45– 9.15	–	–	–	–	–	–	4	3	44	4	55	6	32	11	2	–	–	–	–	–	–	–	–
Receivers	197	7.45	7.37	5.90– 9.00	–	1	4	8	7	48	3	6	24	5	36	4	41	1	2	–	–	2	1	4	–	–	–
Manufacturing	103	7.72	7.60	7.00– 9.00	–	1	1	8	7	1	2	5	24	5	17	3	21	–	2	–	–	2	–	4	–	–	–
Nonmanufacturing	94	7.15	5.90	5.90– 8.21	–	–	3	–	–	47	1	1	–	–	19	1	20	1	–	–	–	–	1	–	–	–	–
Shippers and receivers	149	8.83	8.19	7.35–10.26	–	–	–	–	9	4	1	20	17	8	15	3	22	1	12	–	–	17	–	14	–	–	–
Manufacturing	117	8.96	9.03	7.35–10.26	–	–	–	–	7	–	1	14	17	2	15	2	22	–	12	–	–	17	–	8	–	–	–
Nonmanufacturing	26	8.25	7.75	6.75– 9.71	–	–	–	–	2	4	–	6	–	6	–	1	–	1	–	–	–	–	–	6	–	–	–
Warehousemen	730	9.14	9.24	7.60–10.87	–	1	4	27	19	13	6	2	71	67	60	24	110	68	25	132	2	55	40	1	–	3	–
Manufacturing	436	9.07	9.24	7.80– 9.84	–	–	–	–	14	10	–	–	67	30	36	12	110	67	25	–	1	23	40	1	–	–	–
Nonmanufacturing	294	9.25	10.87	7.60–10.87	–	1	4	27	5	3	6	2	4	37	24	12	–	1	–	132	1	32	–	–	–	3	–
Transportation and utilities	77	9.55	8.00	8.00–11.80	–	–	–	–	1	3	5	2	3	4	23	–	–	–	–	–	1	32	–	–	–	3	–
Order fillers	544	8.41	8.10	7.57–10.10	–	–	4	27	9	52	3	4	12	77	92	24	13	2	144	71	–	–	–	–	–	–	–
Manufacturing	165	7.67	7.57	7.57– 8.11	–	–	4	3	7	1	–	3	12	76	24	21	12	2	–	–	–	–	–	–	–	–	–
Nonmanufacturing	379	8.73	10.10	8.05–10.10	–	–	–	24	2	51	3	1	–	1	68	3	1	–	144	71	–	–	–	–	–	–	–
Shipping packers	291	8.15	9.00	7.43– 9.30	–	–	2	2	31	30	–	–	8	2	41	17	154	4	–	–	–	–	–	–	–	–	–
Manufacturing	212	8.61	9.30	8.90– 9.30	–	–	2	2	19	3	–	–	8	2	1	17	154	4	–	–	–	–	–	–	–	–	–
Material handling laborers	845	10.39	9.04	7.27–14.98	–	14	16	7	6	9	–	6	275	10	33	32	28	1	60	–	13	–	–	49	51	32	203
Nonmanufacturing	426	13.20	14.98	12.77–15.07	–	6	5	4	1	1	–	–	1	–	12	–	–	1	60	–	–	–	–	49	51	32	203
Forklift operators	852	11.21	10.10	9.26–15.07	–	–	–	–	–	2	3	20	3	13	84	69	62	99	124	3	46	23	–	26	–	13	242
Manufacturing	417	9.39	9.44	8.58– 9.91	–	–	–	–	–	2	1	20	3	13	52	57	62	99	42	3	8	23	–	12	–	–	–
Guards	691	5.14	3.75	3.50– 5.50	99	271	71	22	52	30	19	16	19	7	5	8	5	4	3	1	–	1	15	1	33	9	–
Manufacturing	52	6.94	7.03	5.51– 7.91	–	4	–	–	9	2	1	9	5	7	4	3	–	1	3	1	–	–	–	–	–	–	–
Nonmanufacturing	639	5.00	3.65	3.50– 5.00	99	267	71	22	43	28	18	7	11	–	1	5	5	3	–	–	–	1	15	1	33	9	–
Guards I	583	4.11	3.50	3.50– 4.25	99	271	71	22	50	26	14	11	9	5	–	–	–	2	3	–	–	1	15	1	33	9	–
Manufacturing	39	6.46	6.80	5.29– 7.18	–	4	–	–	9	2	1	9	6	5	–	–	–	–	3	–	–	–	–	–	–	–	–
Nonmanufacturing	544	3.95	3.50	3.50– 4.00	99	267	71	22	41	24	13	2	3	–	–	–	–	2	–	–	–	–	–	–	–	–	–
Guards II	108	10.70	12.10	7.63–13.42	–	–	–	–	2	4	5	5	10	2	5	6	5	2	–	1	–	1	15	1	33	9	–
Janitors, porters, and cleaners	1,008	5.94	5.00	3.75– 7.70	63	203	161	37	80	38	22	35	109	29	65	53	32	17	3	11	21	8	–	11	10	–	–
Manufacturing	393	7.77	7.14	6.75– 8.99	–	–	9	8	36	18	10	26	99	15	48	51	22	11	–	–	21	8	–	11	–	–	–
Nonmanufacturing	615	4.76	4.00	3.50– 5.00	63	203	152	29	44	20	12	9	10	14	17	2	10	6	3	11	–	–	–	–	10	–	–

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Scranton–Wilkes-Barre, PA, August 1988

Sex,[a] occupation, and industry division	Number of workers	Average (mean[b]) hourly earnings (in dollars)[b]
Maintenance, toolroom, and powerplant occupations – men		
Maintenance electricians	297	11.54
Manufacturing	253	10.80
Maintenance machinists	219	10.82
Manufacturing	218	10.81
Maintenance mechanics (machinery)	346	10.52
Manufacturing	343	10.50
Motor vehicle mechanics	219	12.23
Manufacturing	76	10.10
Nonmanufacturing	143	13.36
Transportation and utilities	137	13.43
General maintenance workers	662	9.66
Manufacturing	469	10.10
Nonmanufacturing	193	8.57
Transportation and utilities	29	9.48
Maintenance trades helpers	29	7.45
Tool and die makers	136	12.50
Manufacturing	136	12.50
Stationary engineers	26	12.61
Material movement and custodial occupations – men		
Truckdrivers	871	11.51
Manufacturing	179	9.32
Nonmanufacturing	692	12.08
Transportation and utilities	411	14.18
Truckdrivers, medium truck	166	8.50
Manufacturing	49	9.80
Truckdrivers, heavy truck	158	9.04
Manufacturing	62	8.84
Nonmanufacturing	96	9.18
Truckdrivers, tractor-trailer	279	12.49
Manufacturing	31	10.11
Nonmanufacturing	248	12.79
Shippers	158	8.22
Manufacturing	153	8.24
Receivers	194	7.43
Manufacturing	103	7.72
Nonmanufacturing	91	7.10
Shippers and receivers	141	8.83
Manufacturing	116	8.96
Nonmanufacturing	25	8.19
Warehousemen	659	9.17
Manufacturing	422	9.17
Nonmanufacturing	237	9.34
Transportation and utilities	70	9.56
Order fillers	380	9.15
Manufacturing	161	7.68
Material handling laborers	532	10.43
Nonmanufacturing	426	13.23
Forklift operators	834	11.25
Manufacturing	497	9.36
Guards	648	5.11
Manufacturing	47	6.85
Nonmanufacturing	601	4.98
Guards I	551	4.10
Manufacturing	37	6.41
Nonmanufacturing	514	3.94
Guards II	97	10.86
Janitors, porters, and cleaners	708	6.42
Manufacturing	318	7.86
Nonmanufacturing	390	5.25
Material movement and custodial occupations – women		
Warehousemen	71	8.93
Guards	43	5.56
Nonmanufacturing	38	5.29
Guards I	32	4.33
Nonmanufacturing	30	4.13
Janitors, porters, and cleaners	300	4.79
Manufacturing	75	7.41
Nonmanufacturing	225	3.92

See footnotes at end of tables.

Table A-7. Indexes of earnings and percent increases for selected occupational groups, Scranton–Wilkes-Barre, PA, selected periods

Period[1]	All industries					Manufacturing					Nonmanufacturing			
	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Unskilled plant
Indexes (August 1977=100):														
August 1987	180.5	194.2	(*)	178.4	168.8	(*)	(*)	(*)	178.1	174.0	(*)	(*)	(*)	168.8
August 1988	189.7	199.2	(*)	183.0	175.4	(*)	(*)	(*)	182.9	181.0	(*)	(*)	(*)	175.2
Percent increases:														
August 1974 to August 1975	6.7	(*)	7.1	6.8	7.6	6.1	(*)	6.5	7.2	8.3	5.9	(*)	(*)	6.8
August 1975 to August 1976	10.0	(*)	7.6	6.4	7.4	7.3	(*)	8.0	6.1	6.6	11.9	(*)	(*)	8.0
August 1976 to August 1977	7.4	(*)	9.3	10.4	8.8	8.5	(*)	9.8	10.5	10.6	6.7	(*)	(*)	7.3
August 1977 to August 1978	6.8	6.2	7.8	8.0	8.5	7.0	(*)	8.5	8.1	7.3	6.7	(*)	(*)	9.3
August 1978 to August 1979	6.1	6.4	10.0	7.0	8.2	7.0	(*)	10.3	7.0	5.9	4.5	(*)	(*)	9.6
August 1979 to August 1980	8.9	10.1	6.1	8.9	10.0	8.8	(*)	5.8	8.3	9.4	9.0	9.4	(*)	10.2
August 1980 to August 1981	9.1	8.2	10.8	7.9	9.3	9.2	(*)	10.9	7.6	9.2	9.1	8.0	(*)	9.4
August 1981 to August 1982	7.8	11.0	5.5	6.6	4.6	8.6	(*)	8.3	7.0	6.4	(*)	10.7	(*)	4.0
August 1982 to August 1983	5.7	6.0	5.9	5.4	3.0	(*)	(*)	6.9	6.4	5.2	5.5	5.6	(*)	2.1
August 1983 to August 1984	4.5	6.2	7.7	5.5	1.9	(*)	(*)	(*)	6.3	5.3	4.2	6.6	(*)	0.8
August 1984 to August 1985	4.5	5.8	6.4	3.7	2.4	(*)	(*)	(*)	4.0	3.8	5.6	6.4	(*)	1.9
August 1985 to August 1986	3.4	5.2	4.4	3.0	3.4	(*)	(*)	(*)	2.4	2.9	2.8	4.9	(*)	3.6
August 1986 to August 1987	4.2	3.7	(*)	3.7	2.9	(*)	(*)	(*)	3.5	1.8	4.3	3.0	(*)	3.3
August 1987 to August 1988	5.1	2.6	(*)	2.6	3.9	(*)	(*)	(*)	2.7	4.0	4.8	1.3	(*)	3.9

See footnotes at end of tables.

Table A-8. Pay relationships in establishments with paired office clerical occupations, Scranton–Wilkes-Barre, PA, August 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100																	
	Secretaries				Typists	Word processors	Key entry operators		Accounting clerks			Payroll clerks	File clerks	Order clerks		Switchboard operators	Switchboard operator-receptionists
	I	II	III	IV	I	I	I	II	I	II	III		I	I	II		
Secretaries I	100	(*)	84	69	121	(*)	104	100	(*)	116	96	93	(*)	(*)	(*)	(*)	121
Secretaries II	(*)	100	81	82	134	(*)	111	97	116	98	(*)	94	(*)	(*)	(*)	(*)	108
Secretaries III	119	123	100	85	141	129	132	112	137	120	102	101	172	129	(*)	120	127
Secretaries IV	144	122	118	100	158	(*)	158	131	189	134	119	121	204	(*)	(*)	(*)	157
Typists I	83	75	71	63	100	96	88	(*)	103	81	(*)	73	(*)	(*)	(*)	(*)	80
Word processors I	(*)	(*)	78	(*)	105	100	(*)	(*)	(*)	89	(*)	86	(*)	(*)	(*)	(*)	97
Key entry operators I	96	90	76	63	114	(*)	100	71	104	91	78	85	110	105	54	90	99
Key entry operators II	100	103	89	77	(*)	(*)	140	100	142	110	(*)	(*)	(*)	(*)	(*)	(*)	103
Accounting clerks I	(*)	85	73	53	97	(*)	96	70	100	84	(*)	82	116	96	(*)	89	91
Accounting clerks II	86	102	83	75	123	112	109	91	119	100	77	94	121	108	86	108	108
Accounting clerks III	102	(*)	96	84	(*)	(*)	129	(*)	(*)	130	100	106	171	(*)	(*)	(*)	122
Payroll clerks	108	106	99	83	137	116	118	(*)	122	106	94	100	(*)	122	(*)	117	110
File clerks I	(*)	(*)	58	49	(*)	(*)	91	(*)	86	83	58	(*)	100	(*)	(*)	(*)	(*)
Order clerks I	(*)	(*)	78	(*)	(*)	(*)	95	(*)	104	93	(*)	82	(*)	100	(*)	(*)	112
Order clerks II	(*)	(*)	(*)	(*)	(*)	(*)	185	(*)	(*)	152	(*)	(*)	(*)	(*)	100	(*)	180
Switchboard operators	(*)	(*)	83	(*)	(*)	(*)	112	(*)	112	92	(*)	86	(*)	(*)	(*)	100	(*)
Switchboard operator-receptionists	82	93	79	64	124	103	101	97	110	92	82	91	(*)	89	56	(*)	100

NOTE: This matrix table shows the average (mean) relationship of earnings in establishments between any two occupations compared. Earnings for an occupation in the table stub are expressed as a percent of the earnings for an occupation in the column heading at the point where the data lines for the two intersect. For example, reading across the Secretaries III row, the 119 in the Secretaries I column indicates that Secretaries III average 119 percent of (or 19 percent more than) the earnings of Secretaries I.

See appendix A for method of computation.

Also see footnotes at end of tables.

Table A-9. Pay relationships in establishments with paired professional and technical occupations, Scranton–Wilkes-Barre, PA, August 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Computer systems analysts		Computer programmers			Computer operators		Drafters				Electronics technicians		Registered industrial nurses
	II	III	I	II	III	I	II	II	III	IV	V	I	II	
Computer systems analysts II	100	82	192	148	122	(*)	191	(*)	(*)	(*)	(*)	(*)	143	145
Computer systems analysts III	122	100	215	165	135	250	210	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Computer programmers I	52	46	100	73	64	(*)	103	(*)	(*)	(*)	(*)	(*)	81	(*)
Computer programmers II	68	61	137	100	82	162	129	133	107	95	(*)	111	105	119
Computer programmers III	82	74	156	122	100	197	156	(*)	170	116	(*)	(*)	109	(*)
Computer operators I	(*)	40	(*)	62	51	100	80	(*)	(*)	(*)	(*)	(*)	66	78
Computer operators II	52	48	97	78	64	125	100	(*)	(*)	74	(*)	88	77	98
Drafters II	(*)	(*)	(*)	75	(*)	(*)	(*)	100	84	72	58	(*)	(*)	(*)
Drafters III	(*)	(*)	(*)	94	59	(*)	(*)	118	100	85	(*)	(*)	(*)	(*)
Drafters IV	(*)	(*)	(*)	105	86	(*)	135	139	118	100	(*)	(*)	115	121
Drafters V	(*)	(*)	(*)	(*)	(*)	(*)	(*)	171	(*)	(*)	100	(*)	(*)	(*)
Electronics technicians I	(*)	(*)	(*)	90	(*)	(*)	114	(*)	(*)	(*)	(*)	100	(*)	(*)
Electronics technicians II	70	(*)	123	95	92	155	130	(*)	(*)	87	(*)	(*)	100	115
Registered industrial nurses	69	(*)	(*)	84	(*)	126	113	(*)	(*)	82	(*)	(*)	87	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-10. Pay relationships in establishments with paired maintenance, toolroom, and powerplant occupations, Scranton–Wilkes-Barre, PA, August 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100							
	Electricians	Machinists	Maintenance mechanics (machinery)	Motor vehicle mechanics	Maintenance workers (general)	Trades helpers	Tool and die makers	Stationary engineers
Maintenance electricians	100	99	102	100	108	145	96	100
Maintenance machinists	101	100	103	(*)	107	(*)	99	101
Maintenance mechanics (machinery)	98	97	100	95	104	119	95	99
Motor vehicle mechanics	100	(*)	105	100	108	161	(*)	(*)
General maintenance workers	93	93	96	92	100	(*)	89	(*)
Maintenance trades helpers	89	(*)	84	82	(*)	100	(*)	(*)
Tool and die makers	104	101	106	(*)	112	(*)	109	(*)
Stationary engineers	100	99	101	(*)	(*)	(*)	(*)	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-11. Pay relationships in establishments with paired material movement and custodial occupations, Scranton–Wilkes-Barre, PA, August 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Truckdrivers			Shippers	Receivers	Shippers and receivers	Warehouse-men	Order fillers	Shipping packers	Material handling laborers	Forklift operators	Guards		Janitors, porters, and cleaners
	Medium truck	Heavy truck	Tractor-trailer									I	II	
Truckdrivers, medium truck	100	(*)	111	(*)	(*)	(*)	102	(*)	(*)	(*)	110	170	(*)	152
Truckdrivers, heavy truck	(*)	100	(*)	(*)	(*)	(*)	94	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Truckdrivers, tractor-trailer	90	(*)	100	(*)	107	(*)	107	101	(*)	105	101	166	(*)	121
Shippers	(*)	(*)	(*)	100	106	(*)	96	105	111	(*)	100	(*)	(*)	109
Receivers	(*)	(*)	94	94	100	(*)	100	97	101	(*)	101	148	(*)	110
Shippers and receivers	(*)	(*)	(*)	(*)	(*)	100	110	(*)	(*)	108	97	125	(*)	110
Warehousemen	98	107	93	104	100	91	100	97	(*)	106	101	127	(*)	106
Order fillers	(*)	(*)	89	95	103	(*)	103	100	96	103	(*)	(*)	(*)	117
Shipping packers	(*)	(*)	(*)	90	99	(*)	(*)	102	100	(*)	(*)	121	(*)	110
Material handling laborers	(*)	(*)	95	(*)	(*)	83	94	97	(*)	100	92	100	(*)	125
Forklift operators	91	(*)	99	100	99	103	99	(*)	(*)	108	100	151	(*)	112
Guards I	59	(*)	60	(*)	66	60	79	(*)	82	100	66	100	(*)	101
Guards II	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	100	(*)
Janitors, porters, and cleaners	66	(*)	83	92	91	91	94	85	91	80	89	99	(*)	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table B-1. Minimum entrance salaries for inexperienced typists and clerks in Scranton–Wilkes-Barre, PA, August 1988

Minimum weekly straight-time salary[1]	Inexperienced typists				Other inexperienced clerical workers[2]					
	All industries	Manufacturing		Nonmanufacturing	All industries	Manufacturing		Nonmanufacturing		
		All schedules	40 -hour schedules	All schedules		All schedules	40 -hour schedules	All schedules	40 -hour schedules	37.5 -hour schedules
Establishments studied	185	85	(*)	100	185	85	(*)	100	(*)	(*)
Establishments having a specified minimum	13	8	7	5	52	20	17	32	17	6
Under $130	-	-	-	-	1	-	-	1	-	-
$130 and under $135	-	-	-	-	3	-	-	3	2	-
$135 and under $140	-	-	-	-	1	-	-	1	-	1
$140 and under $145	-	-	-	-	2	-	-	2	1	-
$145 and under $150	-	-	-	-	1	-	-	1	-	-
$150 and under $155	1	-	-	1	4	2	-	2	-	1
$155 and under $160	1	-	-	1	1	-	-	1	-	-
$160 and under $165	-	-	-	-	7	1	1	6	5	-
$165 and under $170	1	1	1	-	4	1	-	3	1	2
$170 and under $175	2	1	-	1	4	1	1	3	2	-
$175 and under $180	1	1	1	-	2	1	1	1	-	1
$180 and under $185	2	-	-	2	2	1	1	1	-	-
$185 and under $190	-	-	-	-	2	1	1	1	-	1
$190 and under $195	1	1	1	-	2	2	2	-	-	-
$195 and under $200	-	-	-	-	-	-	-	-	-	-
$200 and under $210	1	1	1	-	4	3	3	1	1	-
$210 and under $220	-	-	-	-	-	-	-	-	-	-
$220 and under $230	-	-	-	-	-	-	-	-	-	-
$230 and under $240	1	1	1	-	2	2	2	-	-	-
$240 and under $250	1	1	1	-	3	2	2	1	1	-
$250 and under $260	-	-	-	-	2	-	-	2	2	-
$260 and under $270	1	1	1	-	-	-	-	-	-	-
$270 and under $280	-	-	-	-	2	1	1	1	1	-
$280 and under $290	-	-	-	-	-	-	-	-	-	-
$290 and under $300	-	-	-	-	1	1	1	-	-	-
$300 and under $310	-	-	-	-	1	1	1	-	-	-
$310 and over	-	-	-	-	1	-	-	1	1	-
Establishments having no specified minimum	15	6	(*)	9	69	39	(*)	30	(*)	(*)
Establishments which did not employ workers in this category	156	71	(*)	85	63	26	(*)	37	(*)	(*)
Establishments for which data were not available	1	-	(*)	1	1	-	(*)	1	(*)	(*)

See footnotes at end of tables.

Table B-2. Late-shift pay provisions for full-time manufacturing production and related workers in Scranton–Wilkes-Barre, PA, August 1988

(All full-time manufacturing production and related workers = 100 percent)

Item	Workers in establishments with late-shift provisions[1]		Workers on late shifts	
	Second shift	Third shift	Second shift	Third shift
Total workers (in percent)	73.8	64.0	18.8	9.8
With no pay differential for late-shift work	1.4	1.4	.6	.2
With pay differential for late-shift work	72.4	62.6	18.2	9.6
Uniform cents-per-hour differential	57.3	50.7	12.7	7.5
Uniform percentage differential	15.1	11.9	3.5	2.1
By type and amount of pay differential:				
Uniform cents per hour:				
5 cents	1.2	-	.5	-
10 cents	4.9	2.5	.6	.2
11 cents	.2	-	.1	-
12 cents	-	1.2	-	-
14 cents	-	.2	-	(*)
15 and under 16 cents	26.2	2.1	5.7	-
17 cents	-	8.7	-	2.2
18 cents	1.4	-	.3	-
19 cents	.5	-	(*)	-
20 and under 21 cents	3.7	13.4	.8	1.4
21 and under 22 cents	-	1.0	-	.3
22 cents	2.1	-	.8	-
24 cents	5.0	3.5	1.4	.8
25 cents	5.8	1.2	1.0	.2
26 cents	.9	1.2	.4	.1
28 cents	-	4.3	-	1.1
30 cents	2.6	4.3	.7	.9
31 cents	-	.9	-	.1
35 cents	1.2	.9	.4	.1
40 cents	1.3	2.9	.1	.5
45 cents	-	1.2	-	.1
50 cents	.2	-	(*)	-
63 cents	-	1.1	-	.1
75 cents	-	.2	-	-
Uniform percentage:				
5 percent	6.2	-	1.2	-
6 percent	.9	.9	.2	.2
7 and under 8 percent	1.5	2.8	.7	.5
10 percent	4.5	6.7	1.3	1.2
11 percent	-	1.5	-	.2
Average pay differential (in cents or percent):				
Uniform cents-per-hour differential	18.8	24.0	19.0	23.8
Uniform percentage differential	6.8	9.2	7.5	9.2

See footnotes at end of tables.

Table B-3. Scheduled weekly hours and days of full-time first-shift workers in Scranton–Wilkes-Barre, PA, August 1986

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
All full-time day-shift workers (in percent)	100	100	100	100	100	100	100	100
Scheduled to work:								
20 hours—5 days	(1)	–	1	–	–	–	–	–
24 hours—3 days	(1)	–	(1)	–	–	–	–	–
28.8 hours—5 days	–	–	–	–	1	3	–	–
30 hours—5 days	(1)	–	1	–	–	–	–	–
35 hours—5 days	10	11	7	–	4	1	6	–
36 hours—5 days	1	1	–	–	–	–	–	–
36.25 hours—5 days	–	–	–	–	2	6	–	–
37 hours—5 days	–	–	–	–	2	–	3	–
37.2 hours—5 days	–	–	–	–	(1)	–	(1)	–
37.5 hours—5 days	5	7	1	–	31	19	38	11
38 hours—5 days	–	–	–	–	4	–	6	–
38.75 hours—5 days	–	–	–	–	2	5	–	–
39.5 hours—5 days	–	–	–	–	(1)	–	(1)	–
40 hours—5 days	75	70	88	100	54	68	47	89
42 hours	4	5	–	–	–	–	–	–
3.5 days	(1)	1	–	–	–	–	–	–
5 days	3	5	–	–	–	–	–	–
42.5 hours—5 days	2	2	–	–	–	–	–	–
45 hours	2	2	–	–	–	–	–	–
5 days	(1)	(1)	–	–	–	–	–	–
5.5 days	1	2	–	–	–	–	–	–
48 hours—6 days	1	1	–	–	–	–	–	–
Average weekly schedule (in hours)	39.5	39.6	39.3	40.0	38.7	38.9	38.5	39.7

See footnotes at end of tables.

Table B-4. Annual paid holidays for full-time workers in Scranton–Wilkes-Barre, PA, August 1988

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
All full-time workers (in percent)	100	100	100	100	100	100	100	100
In establishments not providing paid holidays	2	-	8	1	(1)	-	(1)	-
In establishments providing paid holidays	98	100	92	99	99	100	99	100
Number of holidays:								
1 or more half days	(1)	-	1	-	-	-	-	-
1 holiday	-	-	-	-	(1)	-	(1)	-
2 holidays	1	-	2	-	-	-	-	-
4 holidays	(1)	-	1	-	(1)	-	(1)	-
Plus 4 half days	(1)	-	1	-	1	-	1	-
6 holidays	7	2	18	3	11	12	10	1
Plus 1 or more half days	2	-	7	-	2	-	3	-
7 holidays	6	3	12	1	3	1	4	1
Plus 1 or more half days	6	2	15	2	6	1	9	2
8 holidays	2	2	3	-	2	1	2	-
Plus 2 half days	(1)	-	(1)	-	(1)	-	(1)	1
9 holidays	11	12	8	23	6	6	6	26
Plus 1 or more half days	2	3	1	3	1	1	1	2
10 holidays	20	23	13	50	30	25	33	63
11 holidays	16	23	3	7	26	25	27	5
Plus 1 half day	1	(1)	3	-	1	(1)	2	-
12 holidays	15	20	3	10	6	13	2	-
Plus 1 half day	1	1	-	-	3	8	-	-
13 holidays	5	7	-	-	2	5	-	-
14 holidays	1	1	-	-	(1)	(1)	-	-
Total paid holiday time[2]:								
2 days or more	98	100	92	99	99	100	99	100
4 days or more	97	100	90	99	99	100	99	100
6 days or more	96	100	88	99	96	100	99	100
6.5 days or more	89	98	69	96	88	88	89	99
7 days or more	88	98	66	96	87	88	87	99
7.5 days or more	82	95	54	95	84	87	83	99
8 days or more	75	94	34	93	78	87	73	96
8.5 days or more	73	92	31	93	76	85	71	96
9 days or more	72	91	31	93	76	85	71	96
9.5 days or more	61	78	23	70	70	78	65	69
10 days or more	59	73	23	70	66	77	64	69
11 days or more	39	53	9	18	39	52	31	5
11.5 days or more	23	30	8	10	12	27	5	-
12 days or more	21	30	3	10	11	27	2	-
12.5 days or more	6	9	-	-	5	13	-	-
13 days or more	6	8	-	-	2	5	-	-
14 days	1	1	-	-	(1)	(1)	-	-
Average number of paid holidays where provided (in days)	9.7	10.5	7.8	9.9	9.7	10.3	9.4	9.7

See footnotes at end of tables.

Table B-5. Paid vacation provisions for full-time workers in Scranton–Wilkes-Barre, PA, August 1988

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
All full-time workers (in percent)	100	100	100	100	100	100	100	100
In establishments not providing paid vacations	2	(1)	5	1	–	–	–	–
In establishments providing paid vacations	98	99	95	99	100	100	100	100
Length-of-time payment	81	74	95	99	99	99	100	100
Percentage payment	17	25	–	–	(1)	1	–	–
Other payment	(1)	1	–	–	–	–	–	–
By vacation pay provisions for[2]:								
6 months of service:								
Under 1 week	12	14	7	–	10	14	8	–
1 week	18	19	16	28	43	45	42	26
Over 1 and under 2 weeks	1	2	–	–	4	8	2	4
2 weeks	–	–	–	–	7	1	10	–
1 year of service:								
Under 1 week	2	2	2	–	(1)	(1)	(1)	–
1 week	72	76	62	47	29	27	30	46
Over 1 and under 2 weeks	6	4	10	21	(1)	1	(1)	(1)
2 weeks	19	18	21	28	69	69	69	54
3 weeks	(1)	(1)	–	–	1	3	–	–
2 years of service:								
Under 1 week	(1)	1	–	–	–	–	–	–
1 week	31	35	22	6	6	14	4	4
Over 1 and under 2 weeks	12	11	14	–	4	3	4	–
2 weeks	42	38	52	70	86	77	91	95
Over 2 and under 3 weeks	5	4	7	22	1	2	1	1
3 weeks	7	11	–	–	1	3	–	–
4 weeks	(3)	(3)	–	–	–	–	–	–
3 years of service:								
Under 1 week	(3)	1	–	–	–	–	–	–
1 week	9	8	10	3	2	3	1	1
Over 1 and under 2 weeks	8	7	11	–	4	2	4	–
2 weeks	65	65	65	75	89	85	92	98
Over 2 and under 3 weeks	5	3	10	22	2	3	1	1
3 weeks	9	12	(3)	(3)	4	6	2	–
Over 3 and under 4 weeks	2	3	–	–	–	–	–	–
4 weeks	(3)	(3)	–	–	–	–	–	–
4 years of service:								
Under 1 week	(3)	1	–	–	1	3	(3)	–
1 week	5	6	3	–	3	1	4	–
Over 1 and under 2 weeks	4	1	11	–	93	87	93	98
2 weeks	71	71	71	77	2	3	1	1
Over 2 and under 3 weeks	6	5	10	22	(3)	6	2	–
3 weeks	9	12	(3)	(3)	4	–	–	–
Over 3 and under 4 weeks	2	3	–	–	–	–	–	–
4 weeks	(3)	(3)	–	–	–	–	–	–

See footnotes at end of tables.

Table B-5. Paid vacation provisions for full-time workers in Scranton–Wilkes-Barre, PA, August 1988—Continued

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
5 years of service:								
Under 1 week	(1)	1	-	-	-	-	-	-
1 week	1	1	1	-	(1)	-	(1)	-
Over 1 and under 2 weeks	3	-	11	-	3	-	4	-
2 weeks	49	48	51	41	61	53	66	46
Over 2 and under 3 weeks	18	17	18	50	11	2	18	26
3 weeks	25	30	13	8	24	44	13	27
Over 3 and under 4 weeks	2	3	(1)	(1)	(1)	(1)	(1)	1
4 weeks	(1)	(1)	-	-	-	-	-	-
8 years of service:								
Under 1 week	(1)	1	-	-	-	-	-	-
1 week	(1)	-	1	-	(1)	-	(1)	-
2 weeks	23	19	32	13	24	19	26	12
Over 2 and under 3 weeks	15	15	13	31	19	13	22	15
3 weeks	53	55	48	55	55	66	50	72
Over 3 and under 4 weeks	6	9	(1)	(1)	2	2	2	1
4 weeks	(1)	(1)	-	-	-	-	-	-
10 years of service:								
Under 1 week	(1)	1	-	-	-	-	-	-
1 week	(1)	-	1	-	(1)	-	(1)	-
2 weeks	10	6	19	3	7	7	7	1
Over 2 and under 3 weeks	4	5	-	-	2	6	-	-
3 weeks	63	63	65	75	80	61	90	98
Over 3 and under 4 weeks	13	14	10	22	5	14	(1)	1
4 weeks	7	10	1	-	6	12	3	-
12 years of service:								
Under 1 week	(1)	1	-	-	-	-	-	-
1 week	(1)	-	1	-	(1)	-	(1)	-
2 weeks	9	6	16	3	6	7	6	1
Over 2 and under 3 weeks	3	4	-	-	2	5	-	-
3 weeks	59	56	65	65	73	60	81	83
Over 3 and under 4 weeks	16	18	12	31	11	15	9	16
4 weeks	8	11	1	-	6	14	4	-
Over 4 and under 5 weeks	2	3	-	-	-	-	-	-
15 years of service:								
Under 1 week	(1)	1	-	-	-	-	-	-
1 week	(1)	-	1	-	(1)	-	(1)	-
2 weeks	9	6	16	3	6	7	6	1
3 weeks	35	38	29	18	41	40	41	18
Over 3 and under 4 weeks	14	18	6	9	4	5	3	15
4 weeks	33	31	37	48	48	46	49	65
Over 4 and under 5 weeks	5	4	6	22	(1)	(1)	(1)	1
5 weeks	1	1	-	-	1	3	-	-
20 years of service:								
Under 1 week	(1)	1	-	-	-	-	-	-
1 week	(1)	-	1	-	(1)	-	(1)	-
2 weeks	9	6	16	3	6	7	6	1
3 weeks	22	24	17	8	12	13	12	7
Over 3 and under 4 weeks	8	10	1	-	2	5	(1)	-
4 weeks	43	43	44	65	69	60	74	85
Over 4 and under 5 weeks	5	6	3	(1)	1	2	(1)	1
5 weeks	8	6	8	2	9	13	7	6
Over 5 and under 6 weeks	2	1	6	21	(1)	-	(1)	(1)

See footnotes at end of tables.

Table B-5. Paid vacation provisions for full-time workers in Scranton–Wilkes-Barre, PA, August 1988—Continued

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
25 years of service:								
Under 1 week	(1)	1	–	–	–	–	–	–
1 week	(1)	–	1	–	(1)	–	(1)	–
2 weeks	9	6	16	3	6	7	6	1
3 weeks	19	20	17	8	11	10	12	7
Over 3 and under 4 weeks	9	12	1	–	2	4	(1)	–
4 weeks	32	33	28	19	56	52	62	46
Over 4 and under 5 weeks	3	3	3	–	(1)	1	–	–
5 weeks	24	24	24	47	22	25	20	44
Over 5 and under 6 weeks	2	–	6	22	(1)	–	(1)	1
6 weeks	–	–	–	–	(1)	1	(1)	1
Over 6 and under 7 weeks	1	1	–	–	–	–	–	–
30 years of service:								
Under 1 week	(1)	1	–	–	–	–	–	–
1 week	(1)	–	1	–	(1)	–	(1)	–
2 weeks	9	6	16	3	6	7	6	1
3 weeks	19	20	17	8	11	10	12	7
Over 3 and under 4 weeks	8	10	1	–	2	4	(1)	–
4 weeks	33	35	28	19	56	52	62	46
Over 4 and under 5 weeks	3	3	3	–	(1)	1	–	–
5 weeks	23	22	24	47	21	23	20	44
Over 5 and under 6 weeks	2	–	6	22	(1)	–	(1)	1
6 weeks	1	1	–	–	1	3	(1)	1
Over 6 and under 7 weeks	1	1	–	–	–	–	–	–
Maximum vacation available:								
Under 1 week	(1)	1	–	–	–	–	–	–
1 week	(1)	–	1	–	(1)	–	(1)	–
2 weeks	9	6	16	3	6	7	6	1
3 weeks	19	20	17	8	11	10	12	7
Over 3 and under 4 weeks	8	10	1	–	2	4	(1)	–
4 weeks	33	35	28	19	56	52	62	46
Over 4 and under 5 weeks	3	3	3	–	(1)	1	–	–
5 weeks	20	22	16	17	17	23	14	16
Over 5 and under 6 weeks	2	–	6	22	(1)	–	(1)	1
6 weeks	3	1	8	31	5	3	6	29
Over 6 and under 7 weeks	1	1	–	–	–	–	–	–

See footnotes at end of tables.

Table B-6. Insurance, health, and retirement plans offered to full-time workers in Scranton–Wilkes-Barre, PA, August 1988

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
All full-time workers (in percent)	100	100	100	100	100	100	100	100
In establishments offering at least one of the benefits shown below[1]	98	100	93	99	99	99	99	100
Life insurance	93	94	89	95	97	99	96	97
Noncontributory plans	87	92	77	84	85	99	78	80
Accidental death and dismemberment insurance	77	80	70	95	83	92	78	77
Noncontributory plans	72	78	58	84	71	91	61	60
Sickness and accident insurance or sick leave or both	91	92	88	95	98	99	98	99
Sickness and accident insurance	79	89	54	30	54	67	46	11
Noncontributory plans	76	87	52	29	53	66	45	9
Sick leave (full pay and no waiting period)	32	23	51	86	86	80	90	84
Sick leave (partial pay or waiting period)	3	1	9	8	2	1	3	10
Long-term disability insurance	18	19	18	64	66	61	68	74
Noncontributory plans	12	10	17	64	58	44	66	73
Hospitalization, surgical, and medical insurance	97	100	91	99	98	99	99	100
Noncontributory plans	75	78	68	87	81	83	80	88
Health maintenance organizations	29	28	32	55	42	38	44	75
Noncontributory plans	18	18	20	55	30	22	35	75
Dental care	54	56	49	80	55	47	60	77
Noncontributory plans	36	37	35	69	41	30	46	66
Vision care	29	30	27	39	20	24	19	18
Noncontributory plans	24	23	26	35	17	19	16	15
Alcohol and drug abuse treatment	65	68	57	86	78	80	76	87
Noncontributory plans	58	63	46	85	72	76	70	85
Hearing care	15	17	11	16	11	17	8	25
Noncontributory plans	13	14	11	16	10	15	7	23
Retirement plans[14]	79	82	73	95	90	90	90	99
Noncontributory plans	75	80	65	95	84	84	84	98
Pension	76	79	68	89	86	85	87	94
Noncontributory plans	73	78	62	89	82	82	83	93
Lump sum	6	7	4	6	8	5	9	5
Noncontributory plans	5	6	2	6	7	2	9	5
Other[17]	6	7	4	-	15	22	11	-
Noncontributory plans	3	3	1	-	8	7	8	-

See footnotes at end of tables.

Table B-7. Health plan participation by full-time workers in Scranton–Wilkes-Barre, PA, August 1988

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
All full-time workers (in percent)	100	100	100	100	100	100	100	100
Participating in:								
Hospitalization, surgical, and medical insurance	85	89	80	85	87	88	86	77
Noncontributory plans	69	71	64	75	75	76	75	66
Health maintenance organizations	7	8	5	12	10	11	9	22
Noncontributory plans	5	5	4	12	8	6	9	22
Dental care	51	54	44	73	52	44	56	75
Noncontributory plans	36	37	34	64	42	30	49	66
Vision care	27	28	27	38	20	23	18	17
Noncontributory plans	24	23	26	35	17	19	16	15
Alcohol and drug abuse treatment	62	65	55	88	76	79	74	88
Noncontributory plans	57	61	47	85	72	75	70	85
Hearing care	14	16	11	16	11	17	7	25
Noncontributory plans	13	14	11	16	10	15	7	23

See footnotes at end of tables.

Tzble B-8. Other selected benefits for full-time workers in Scranton–Wilkes-Barre, PA, August 1988

Item	Production and related workers				Office workers			
	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities	All industries	Manufacturing	Nonmanufacturing	Transportation and utilities
All ft/ll-time workers (in percent)	100	100	100	100	100	100	100	100
In establishments providing:								
Severance pay	16	13	24	51	40	33	44	70
Supplemental unemployment benefits	3	5	-	-	1	2	(18)	-
Cost-of-living adjustments	5	6	(18)	2	2	3	1	2
Based on BLS Consumer Price Index	5	6	(18)	2	2	3	1	2
Other basis than BLS Consumer Price Index	-	-	-	-	-	-	-	-
Paid leave:								
Jury duty	83	89	70	90	91	91	90	93
Funeral	91	97	79	96	96	99	94	98
Military	42	47	32	65	64	61	66	90
Personal leave[19]	28	25	36	76	36	19	45	57
1 day	12	15	7	12	18	11	22	16
2 days	6	5	7	16	6	4	7	13
3 days	4	1	12	28	9	3	12	26
4 days	5	3	8	20	2	1	3	12
5 days	(18)	-	1	-	(18)	-	(18)	-
Variable or unspecified[20]	1	1	-	-	(18)	-	(18)	(18)
Average amount of paid personal leave in establishments providing uniform and specified benefits (in days)	2.1	1.7	2.7	2.7	1.9	1.7	1.9	2.5

See footnotes at end of tables.

Footnotes

Some of these standard footnotes may not apply to this bulletin.

[1] Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

[2] Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses—under cost-of-living allowance clauses, and incentive payments, however, are included.

[3] The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—one-half of the workers receive the same as or more and one-half receive the same as or less than the rate shown. The middle range is defined by two rates of pay; one-fourth of the workers earn the same as or less than the lower of these rates and one-fourth earn the same as or more than the higher rate.

[4] Earnings data relate only to workers whose sex identification was provided by the establishment.

[5] Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

[6] Data do not meet publication criteria or data not available.

[7] Formally established minimum regular straight-time hiring salaries that are paid for standard workweeks. Data are presented for all standard workweeks combined, and for the most common standard workweeks reported.

[8] Excludes workers in subclerical jobs such as messenger.

[9] Work schedules collected only for establishments reporting a formal minimum.

[10] Includes all production and related workers in establishments currently operating late shifts, and establishments whose formal provisions cover late shifts, even though the establishments were not currently operating late shifts.

[11] Less than 0.05 percent.

[12] Less than 0.5 percent.

[13] Full and half days are combined. For example, the proportion of workers receiving 10 or more days includes those receiving *at least* 10 full days, or 9 full days and 2 half days, or 8 full days and 4 half days, and so on.

[14] Payments other than "length of time" are converted to an equivalent time basis; for example, 2 percent of annual earnings was considered as 1 week's pay. Periods of service are chosen arbitrarily and do not necessarily reflect individual provisions for progression; for example, changes in proportions at 20 years include changes between 15 and 20 years. Estimates are cumulative. Thus, the proportion eligible for at least 3 weeks' pay for 20 years includes those eligible for at least 3 weeks' pay after fewer years of service.

[15] Estimates listed after type of benefit are for all plans for which at least a part of the cost is borne by the employer. "Noncontributory plans" include only those financed entirely by the employer. Excluded are legally required plans, such as workers' disability compensation, Social Security, and railroad retirement.

[16] Establishments providing more than one type of retirement plan (e.g., an annuity and a lump-sum payment) may cause the sums of the separate plans to be greater than the total for all retirement plans.

[17] "Other" retirement plans provide for a fixed number of payments (more than one) after which payments are discontinued.

[18] Plans intended for use as paid holidays, vacations, or sick leave are not reported as paid personal leave, but are reported as holidays, vacations, or sick leave in accordance with the intent of the plan.

[19] Variable plans include those that provide differing amounts of leave based on length of service; unspecified plans are formal plans with no specified limit.

Appendix A. Scope and Method of Survey

In January 1987, the Bureau began to phase in a new 90-area program to replace the 70-area program that had produced annual surveys since July 1974. When the new plan is fully implemented in 1990, 32 of the areas will be surveyed annually, and two groups of 29 areas will be surveyed in alternate years. (For a full discussion of the change, see Laura Scofea, "BLS Area Wage Survey Will Cover More Areas," *Monthly Labor Review*, June 1986, pp. 19-23.)

In each area surveyed,[1] the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Small establishments—generally those with fewer than 50 employees—are excluded because they have few incumbents in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

In the 32 areas surveyed annually, Bureau field representatives obtain data by personal visits at 3-year intervals. In intervening years, only information on employment and occupational earnings is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

In the two groups of 29 areas that are surveyed in alternate years, Bureau field representatives obtain data for a given area by personal visits if the previous data for the area were obtained primarily by mail and telephone. Thus, in a 4-year period, an area that was surveyed by personal visit the first year will have no survey in the second, a mail and telephone survey in the third, and none in the fourth. As with annual surveys, information on establishment practices and employee benefits is presented only for surveys conducted by personal visits; when information is collected primarily by mail and telephone, only information on employment and earnings is presented.

A sample of the establishments in the scope of the survey is selected for study prior to each personal visit survey. This sample, minus establishments which go out of business or are no longer within the industrial scope of the survey, is retained until the next personal visit survey is conducted. In most cases, establishments new to the area are not considered in the scope of the survey until the selection of a sample for a personal visit survey.

The sampling procedures involve detailed stratification by industry and number of employees of all establishments within the scope of a survey. From this stratified universe, a probability sample is selected, with each establishment having a predetermined chance of selection. To obtain optimum accuracy at minimum cost, a greater proportion of large than small establishments is selected. When data are combined, each establishment is weighted according to its probability of selection so that unbiased estimates are generated. For example, if one out of four establishments is selected, it is given a weight of 4 to represent itself plus three others. If data are not available for an establishment originally selected, the weights of other similar establishments are increased to account for the missing unit.

Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B, along with corresponding occupational codes and titles from the 1980 edition of the *Standard Occupational Classification Manual*.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) data were insufficient to provide meaningful statistical results, or (2) there is a possibility of disclosure of individual establishment data. Earnings data not shown separately for industry divisions are included in data for all industries combined.

Separate data for men and women are not presented when the number of workers not identified by sex is 20 percent or more of the men or women identified in an occupation. Likewise, data are not presented for an occupational level when the number of workers not identified by level is 20 percent or more of the number identified at that level. Data are included in estimates for men and women combined or an overall occupation when sex or level identification is not available.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses— under cost-of-living allowance clauses, and incentive payments, however, are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Some A-series tables provide distributions of workers by earnings; changes in the size of earnings intervals are indicated by heavy vertical lines.

These surveys measure the level of occupational earnings in an area at a particular time. Changes in an occupational average over time reflect, in addition to earnings changes, factors such as changes in proportions of workers employed by high- or low-wage firms, or high-wage workers advancing to better jobs and being replaced by new workers at lower rates. Such shifts in employment could decrease an occupational average even though most establishments in an area increased wages since the last survey. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

Wage trends for selected occupational groups

Indexes in table A-7 measure wages at a given time expressed as a percent of wages during the base period. Subtracting 100 from the index yields the percent change in wages from the base period to the date of the index. The percent increases in table A-7 relate to wage changes between the indicated dates. Annual rates of increase, where shown, reflect the amount of increase for 12 months when the time span between surveys was other than 12 months. These computations are based on the assumption that wages increased at a constant rate between surveys.

The indexes and percent increases are based on changes in average hourly earnings of men and women in establishments reporting the jobs listed below in both the current and previous year (matched establishments). The data are adjusted to remove the effect on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

Occupations used to compute wage trends are:

Office clerical

Secretaries	Payroll clerks
Stenographers I and II	File clerks I, II, and III
Typists I and II	Messengers
Key entry operators I and II	Order clerks I and II
Accounting clerks I, II, III, and IV	Switchboard operators

Electronic data processing

Computer systems analysts	Computer programmers
	Computer operators

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters	Mechanics (machinery)
Electricians	Pipefitters
Painters	Motor vehicle mechanics
Machinists	Tool and die makers

Unskilled plant

Janitors, porters, and cleaners	Material handling laborers

Percent changes for individual areas in the program are computed as follows:

1. Each occupation is assigned a weight based on its proportion of employment in the occupational group in the earlier of the two years being compared. If for example, 1,000 workers were reported in the skilled maintenance group in the earlier year and 200 of these workers were painters, the weight assigned to painters would be 0.20. Using a constant employment weight dampens the effect of employment shifts on wage change measures.
2. Average earnings are computed for each occupation for the 2 years being compared. Earnings are used only from matched estsblishments; that is, establishments that are in the survey both years.

3. Group averages are computed by multiplying the weight of each occupation (step 1) by the occupation's average earnings for each year (step 2). The products are totaled to obtain group averages.
4. The ratio of group averages for 2 consecutive years is computed by dividing the average for the current year by the average for the earlier year. The result—expressed as a percent—less 100 is the percent change.

Pay relationships in establishments

Tables A-8 through A-11 compare average pay of occupations in individual establishments. These comparisons, expressed as pay relatives (pay for one of the occupations equals 100), differ from comparisons of overall survey averages, such as those shown in tables A-1 through A-6. The latter reflect differences in contributions to the survey averages by establishments with disparate pay levels; the pay relative comparisons are not affected by such differences. The following procedures are used to compute relatives in tables A-8 through A-11:

1. Establishments employing workers in both of the paired occupations were identified.

2. Pay levels (averages) for the two occupations were weighted by the combined employment of both jobs to reflect each establishment's contribution to the totals used in this comparison.

3. The weighted pay levels of the two jobs were summed separately; each total was divided by the other and the quotients multiplied by 100 to produce the two pay relatives shown for each job pairing.

Establishment practices and employee benefits

The incidence of selected establishment practices and employee benefits is studied for full-time production and related workers and office workers. Production and related workers (referred to hereafter as production workers) include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, auxiliary production for plant's own use (e.g., powerplant),and recordkeeping and other services closely associated with the above production operations. (Cafeteria and route workers are excluded in manufacturing industries but included in nonmanufacturing industries.) In finance and insurance, no workers are considered to be production workers. Office workers include working supervisors and all nonsupervisory workers (including lead workers and trainees) performing clerical or related office functions in such departments as accounting, advertising, purchasing, collection, credit, finance, legal, payroll, personnel, sales, industrial relations, public relations, executive, drafting or transportation. Administrative, executive, professional, and part-time employees as well as construction workers utilized as a separate work force are excluded from both the production and office worker categories.

Minimum entrance salaries (table B-1). Minimum entrance salaries for office workers relate only to the establishments visited. Because of the optimum sampling techniques used and the probability that large establishments are more likely than small establishments to have formal entrance rates above the subclerical level, the table is more representative of policies in larger establishments.

Shift differentials–manufacturing (table B-2). Data were collected on policies of manufacturing establishments regarding pay differentials for production workers on late shifts. Establishments considered as having policies are those which (1) have provisions in writing covering the operation of late shifts, or (2) have operated late shifts at any time during the 12 months preceding a survey. When establishments have several differentials which vary by job, the differential applying to the majority of the production workers is recorded. When establishments have differentials which apply only to certain hours of work, the differential applying to the most common schedule is recorded.

For purposes of this study, a late shift is either a second (evening) shift which ends at or near midnight or a third (night) shift which starts at or near midnight.

Differentials for second and third shifts are summarized separately for (1) establishment policies (an establishment's differentials are weighted by all production workers in the establishment at the time of the survey) and (2) effective practices (an establishment's differentials are weighted by production workers employed on the specified shift at the time of the survey).

Scheduled weekly hours; paid holidays; paid vacations; insurance, health, and retirement plans; and other selected benefits. Provisions which apply to a majority of the production or office workers in an establishment are considered to apply to all production or office workers in the establishment; a practice or provision is considered nonexistent when it applies to less than a majority. Holidays, vacations, insurance and health plans, and "other selected benefits" (table B-8) are considered applicable to employees currently eligible for the benefits. Retirement plans are considered applicable to employees currently eligible for participation and also to those who will eventually become eligible.

Scheduled weekly hours and days (table B-3). Scheduled weekly hours and days refer to the number of hours and days per week which full-time first (day) shift workers are expected to work, whether paid for at straight-time or overtime rates.

Paid holidays (table B-4). Holidays are included if workers who are not required to work are paid for the time off and those required to work receive premium pay or compensatory time off. They are included only if they are granted annually on a formal basis (provided for in written form or established by custom). Holidays are included even though in a particular year they fall on a nonworkday and employees are not granted another day off. Paid personal holiday provisions, typically found in the automobile and related industries, are included as paid holidays.

Data are tabulated to show the percent of workers who (1) are granted specific numbers of whole and half holidays and (2) are granted specified amounts of total holiday time (whole and half holidays are aggregated).

Paid vacations (table B-5). Establishments report their method of calculating vacation pay (time basis, percent of annual earnings, flat-sum payment, etc.) and the amount of vacation pay granted. Only basic formal plans are reported. Vacation bonuses, vacation-savings plans, and "extended" or "sabbatical" benefits beyond basic plans are excluded.

For tabulating vacation pay granted, all provisions are expressed on a time basis. Vacation pay calculated on other than a time basis is converted to its equivalent time period. Two percent of annual earnings, for example, is tabulated as 1 week's vacation pay.

Also, provisions after each specified length of service are related to all production or office workers in an establishment regardless of length of service. Vacation plans commonly provide for a larger amount of vacation pay as service lengthens. Counts of production or office workers by length of service were not obtained. The tabulations of vacation pay granted present, therefore, statistical measures of these provisions rather than proportions of workers actually receiving specific benefits.

Insurance, health, and retirement plans (table B-6). Insurance, health, and retirement plans include plans for which the employer pays either all or part of the cost. The benefits may be underwritten by an insurance company, paid directly by an employer or union, or provided by a health maintenance organization (HMO). Workers provided the option of an insurance plan or an HMO are reported under both types of plans. A plan is included even though a majority of the employees in an establishment do not choose to participate in it because they are required to bear part of its cost (provided the choice to participate is available to a majority). Legally required plans such as Social Security, railroad retirement, workers' disability compensation, and temporary disability insurance[3] are excluded.

Life insurance includes formal plans providing indemnity (usually through an insurance policy) in case of death of the covered worker.

Accidental death and dismemberment insurance is limited to plans which provide benefit payments in case of death or loss of limb or sight as a direct result of an accident.

Sickness and accident insurance includes only those plans which provide that predetermined cash payments be made directly to employees who lose time from work because of illness or injury, e.g., $50 a week for up to 26 weeks of disability.

Sick leave plans are limited to formal plans[3] which provide for continuing an employee's pay during absence from work because of illness. Data collected distinguish between (1) plans which provide full pay with no waiting period, and (2) plans which either provide partial pay or require a waiting period.

Long-term disability insurance plans provide payments to totally disabled employees upon the expiration of their paid sick leave and/or sickness and accident insurance, or after a predetermined period of disability (typically 6 months). Payments are made until the end of the disability, a maximum age, or eligibility for retirement benefits. Full or partial payments are almost always reduced by Social Security, workers' disability compensation, and private pension benefits payable to the disabled employee.

Hospitalization, surgical, and medical insurance plans provide at least partial payment for: 1) Hospital room charges; 2) inpatient surgery; and 3) doctors' fees for hospital, office, or home visits. These plans typically cover other expenses such as outpatient surgery and prescription drugs.

An HMO provides comprehensive medical care in return for pre-established fees. Unlike insurance, HMO's cover routine preventive care as well as care required because of an illness and do not have deductibles or coinsurance (although there may be small fixed copayments for selected services). HMO's may provide services through their own facilities; through contracts with hospitals, physicians, and other providers, such as individual practice associations (IPA's); or through a combination of methods.

Dental care plans provide at least partial payment for routine dental care, such as checkups and cleanings, fillings, and X-rays. Plans which provide benefits only for oral surgery or other dental care required as the result of an accident are not reported.

Vision care plans provide at least partial payment for routine eye examinations, eyeglasses, or both. Plans which provide benefits only for orthoptics or for eyeglasses resulting from an accident are not reported.

Alcohol and drug abuse treatment plans provide at least partial payment for institutional treatment (in a hospital or specialized facility) for addiction to alcohol or drugs.

Hearing care plans provide at least partial payment for hearing examinations, hearing aids, or both.

Retirement pension plans provide for regular payments to the retiree for life. Included are deferred profit-sharing plans which provide the option of purchasing a lifetime annuity. Lump-sum plans are defined as those providing for a single payment at retirement; "other" plans include those providing for a fixed number of payments (more than one) after which payments are discontinued.

Health plan participation (table B-7). Estimates are presented on the percent of production and office workers participating in hospitalization, surgical, and medical insurance, HMO's, dental, vision, alcohol and drug abuse treatment, and hearing plans. When an establishment was unable to supply the number of plan participants, approximations (imputations) were made, where possible, by using information from other establishments offering a similar plan. Imputations were never made for more than one-third of the production or clerical workers in an industry group (all industries, manufacturing, nonmanufacturing, and transportation and utilities); when imputations were made, they were usually for considerably less than one-third of the workers. Participation rates were estimated and published if participant numbers (including imputations) were available for 90 percent or more of the production or office workers in an industry group; consequently, a published estimate may not relate to a group total.

Other selected benefits (table B-8). Information on the incidence of severance pay, supplemental unemployment benefits, cost-of-living adjustments, jury-duty leave, funeral leave, military leave, and personal leave is presented in table B-8.

Severance pay plans provide one or a limited number of payments to employees permanently separated through no fault of their own for such reasons as technological change or closing or scaling down of a plant or department. Excluded are retirement, profit-sharing, or savings plans, or plans limited to workers separated without prior notice.

Supplemental unemployment benefits (SUB) relate to formal plans designed to supplement benefits paid under State unemployment insurance systems.

Cost-of-living adjustments relate to formal plans by which wage rates are adjusted periodically in keeping with changes in the BLS Consumer Price Index or some other measure.

Paid funeral and jury-duty leave[4] data relate to formal plans that provide at least partial payment for time lost as a result of attending funerals of specified family members, or serving as a juror.

Military leave relates to formal plans providing excused absence from work with full or partial pay while on annual training duty. Plans that provide paid leave only for *temporary emergency* duty are excluded.

Paid personal leave plans are designed to allow workers to be absent from work for a variety of personal reasons. Provisions intended for use as (or extension of) paid holidays, vacations, or sick leave are not reported as paid personal leave, but are reported as holidays, vacations, or sick leave in accordance with the intent of the provision.

Footnotes

[1] The Bureau also conducts more limited area studies in over 100 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

[2] Temporary disability insurance which provides benefits to covered workers disabled by injury or illness which is not work-connected is mandatory under State laws in California, New Jersey, New York, and Rhode Island. Establishment plans which meet only the legal requirements are excluded from these data, but those under which (1) employers contribute more than is legally required or (2) benefits exceed those specified in the State law are included. In Rhode Island, benefits are paid out of a State fund to which only employees contribute. In each of the other three States, benefits are paid either from a State fund or through a private plan.

State fund financing: In California, only employees contribute to the State fund; in New Jersey, employees and employers contribute; in New York, employees contribute up to a specified maximum and employers pay the difference between the employees' share and the total contribution required.

Private plan financing: In California and New Jersey, employees cannot be required to contribute more than they would if they were covered by the State fund; in New York, employees can agree to contribute more if the State rules that the additional contribution is commensurate with the benefit provided.

Federal legislation (Railroad Unemployment Insurance Act) provides temporary disability insurance benefits to railroad workers for illness or injury, whether work-connected or not. The legislation requires that employers bear the entire cost of the insurance.

[3] An establishment is considered as having a formal plan if it specifies at least the minimum number of days of sick leave available to each employee. Such a plan need not be written, but informal sick leave allowances determined on an individual basis are excluded.

[4] When paid jury-duty leave is required by law, as it is in Alabama, Nebraska, Tennessee, and parts of Florida and Massachusetts, plans are included only if the employer provides the employees with benefits exceeding legal requirements.

Appendix table 1. Establishments and workers within scope of survey and number studied in Scranton—Wilkes-Barre, PA,[1] August 1988

Industry division[2]	Minimum employment in establishments in scope of survey	Number of establishments		Workers in establishments				
		Within scope of survey[3]	Studied	Within scope of survey				Studied[4]
				Total[5]		Full-time production and related workers	Full-time office workers	
				Number	Percent			
All divisions	-	663	185	113,846	100	61,815	13,367	59,764
Manufacturing	50	330	85	56,025	49	42,569	4,766	26,668
Nonmanufacturing	-	333	100	57,821	51	19,246	8,621	33,096
Transportation, communication, and other public utilities[6]	50	38	19	10,735	9	4,932	1,758	8,994
Wholesale trade	50	32	11	5,524	5	(7)	(7)	2,838
Retail trade	50	152	32	26,142	23	(7)	(7)	13,036
Finance, insurance, and real estate	50	41	12	7,722	7	(7)	(7)	4,301
Services[8]	50	70	26	7,696	7	(7)	(7)	3,837

[1] The Scranton—Wilkes-Barre, PA Metropolitan Statistical Area, as defined by the Office of Management and Budget through October 1984, consists of Columbia, Lackawanna, Luzerne, Monroe, and Wyoming Counties. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

[2] The 1972 edition of the *Standard Industrial Classification Manual* was used to classify establishments by industry division. All government operations are excluded from the scope of the survey.

[3] Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of nonmanufacturing companies are considered as one establishment when located within the same industry division.

[4] Includes executive, professional, part-time, seasonal, and other workers excluded from the separate production and office categories.

[5] Abbreviated to "transportation and utilities" in the A- and B-series tables. Taxicabs and services incidental to water transportation are excluded.

[6] Separate data for this division are not presented in the A- and B-series tables, but the division is represented in the "all industries" and "nonmanufacturing" estimates.

[7] Hotels and motels; laundries and other personal services; business services; automobile repair, rental, and parking; motion pictures; nonprofit membership organizations (excluding religious and charitable organizations); and engineering and architectural services.

Appendix table 2. Percent of workers covered by labor-management agreements, Scranton—Wilkes-Barre, PA, August 1988

Industry division	Production and related workers	Office workers
All industries	60	7
Manufacturing	70	2
Nonmanufacturing	40	10
Transportation and utilities	87	47

NOTE: An establishment is considered to have a contract covering all production or office workers if a majority of such workers is covered by a labor-management agreement. Therefore, all other production or office workers are employed in establishments that either do not have labor-management contracts in effect, or have contracts that apply to fewer than half of their production or office workers. Estimates are not necessarily representative of the extent to which all workers in the area may be covered by the provisions of labor-management agreements, because small establishments are excluded and the industrial scope of the survey is limited.

Appendix table 3. Industrial composition in manufacturing, Scranton—Wilkes-Barre, PA, August 1988
(Percent of all manufacturing workers)

Apparel and other textile products	18
Women's and misses' outerwear	10
Fabricated metal products	10
Electric and electronic equipment	9
Food and kindred products	8
Textile and mill products	8
Paper and allied products	8
Misc. converted paper products	7
Printing and publishing	6
Rubber and misc. plastics products	6
Machinery, except electrical	5

NOTE: This information is based on estimates of total employment derived from universe materials compiled before actual survey.

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping of occupational wage rates representing comparable job content. Because of this emphasis on comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job description, are excluded.

Listed below are three occupations for which new or revised descriptions or titles are being introduced in this survey:

Computer systems analyst
Computer programmer
Computer operator

In addition, the maintenance, toolroom, and powerplant descriptions have been modified so that workers performing maintenance services for establishments other than their employing establishment are not automatically excluded.

The titles and numerical codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual* (SOC) , issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the Bureau of Labor Statistics' occupational descriptions are much more specific than those found in the SOC manual. The BLS occupation, "Registered Industrial Nurse," for example, is limited to workers providing medical assistance and other related services (e.g., health education) to persons who are ill or become ill or suffer an injury in a factory or other establishment. The SOC occupation (code 29) includes a variety of registered nurses (e.g., school nurse, head nurse, general duty nurse, private duty nurse) that are excluded from the BLS description.

Thus, in comparing the results of this survey with other sources, factors such as differences in occupational definitions and survey scope should be taken into consideration.

Office

SECRETARY

(4622: Secretary)

Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works fairly independently, receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office.

Exclusions. Not all positions that are titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

a. Clerks or secretaries working under the direction of secretaries or administrative assistants as described in e;

b. Stenographers not fully performing secretarial duties;

c. Stenographers or secretaries assigned to two or more professional, technical, or managerial persons of equivalent rank;

d. Assistants or secretaries performing any kind of technical work, e.g., personnel, accounting, or legal work;

e. Administrative assistants or supervisors performing duties which are more difficult or more responsible than the secretarial work described in LR-1 through LR-4;

f. Secretaries receiving additional pay primarily for maintaining confidentiality of payroll records or other sensitive information;

g. Secretaries performing routine receptionist, typing, and filing duties following detailed instructions and guidelines; these duties are less responsible than those described in LR-1 below;

h. Trainees.

Classification by level. Secretary jobs which meet the required characteristics are matched at one of five levels according to two factors: (a) Level of the secretary's supervisor within the overall organizational structure, and (b) level of the secretary's responsibility. The table following the explanations of these factors indicates the level of the secretary for each combination of factors.

Level of Secretary's Supervisor (LS)

Secretaries should be matched at one of the three LS levels below best describing the organization of the secretary's supervisor.

LS-1

Organizational structure is not complex and internal procedures and administrative controls are simple and informal; supervisor directs staff through face-to-face meetings.

LS-2

Organizational structure is complex and is divided into subordinate groups that usually differ from each other as to subject matter, function, etc.; supervisor usually directs staff through intermediate supervisors; internal procedures and administrative controls are formal. An entire organization (e.g., division, subsidiary, or parent organization) may contain a variety of subordinate groups which meet the LS-2 definition. Therefore, it is not unusual for one LS-2 supervisor to report to another LS-2 supervisor.

The presence of subordinate supervisors does not by itself mean LS-2 applies, e.g., a clerical processing organization divided into several units, each performing very similar work, is placed in LS-1.

In smaller organizations or industries such as retail trade, with relatively few organizational levels, the supervisor may have an impact on the policies and major programs of the entire organization, and may deal with important outside contacts, as described in LS-3.

LS-3

Organizational structure is divided into two or more subordinate supervisory levels (of which at least one is a managerial level) with several subdivisions at each level. Executive's program(s) are usually interlocked on a direct and continuing basis with other major organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls. Executive typically has: Financial decisionmaking authority for assigned program(s); considerable impact on the entire organization's financial position or image; and responsibility for, or has staff specialists in, such areas as personnel and administration for assigned organization. Executive plays an important role in determining the policies and major programs of the entire organization, and spends considerable time dealing with outside parties actively interested in assigned program(s) and current or controversial issues.

Level of Secretary's Responsibility (LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor or staff, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at the level best describing their level of responsibility. When a position's duties span more than one LR level, the introductory paragraph at the beginning of each LR level should be used to determine which of the levels best matches the position. (Typically, secretaries performing at the higher levels of responsibility also perform duties described at the lower levels.)

LR-1

Carries out recurring office procedures independently. Selects the guideline or reference which fits the specific case. Supervisor provides specific instructions on new assignments and checks completed work for accuracy. Performs varied duties including or comparable to the following:

a. Responds to routine telephone requests which have standard answers; refers calls and visitors to appropriate staff. Controls mail and assures timely staff response; may send form letters;
b. As instructed, maintains supervisor's calendar, makes appointments, and arranges for meeting rooms;
c. Reviews materials prepared for supervisor's approval for typographical accuracy and proper format;
d. Maintains recurring internal reports, such as: Time and leave records, office equipment listings, correspondence controls, training plans, etc.;
e. Requisitions supplies, printing, maintenance, or other services. Types, takes and transcribes dictation, and establishes and maintains office files.

LR-2

Handles differing situations, problems, and deviations in the work of the office according to the supervisor's general instructions, priorities, duties, policies, and program goals. Supervisor may assist secretary with special assignments. Duties include or are comparable to the following:

a. Screens telephone calls, visitors, and incoming correspondence; personally responds to requests for information concerning office procedures; determines which requests should be handled by the supervisor, appropriate staff member, or other offices. May prepare and sign routine, nontechnical correspondence in own or supervisor's name;
b. Schedules tentative appointments without prior clearance. Makes arrangements for conferences and meetings and assembles established background materials, as directed. May attend meetings and record and report on the proceedings;
c. Reviews outgoing materials and correspondence for internal consistency and conformance with supervisor's procedures; assures that proper clearances have been obtained, when needed;
d. Collects information from the files or staff for routine inquiries on office program(s) or periodic reports. Refers nonroutine requests to supervisor or staff;
e. Explains to subordinate staff supervisor's requirements concerning office procedures. Coordinates personnel and administrative forms for the office and forwards for processing.

LR-3

Uses greater judgment and initiative to determine the approach or action to take in nonroutine situations. Interprets and adapts guidelines, including unwritten policies, precedents, and practices, which are not always completely applicable to changing situations. Duties include or are comparable to the following:

a. Based on a knowledge of the supervisor's views, composes correspondence on own initiative about administrative matters and general office policies for supervisor's approval;
b. Anticipates and prepares materials needed by the supervisor for conferences, correspondence, appointments, meetings, telephone calls, etc;, and informs supervisor on matters to be considered;
c. Reads publications, regulations, and directives and takes action or refers those that are important to the supervisor and staff;
d. Prepares special or one-time reports, summaries, or replies to inquiries, selecting relevant information from a variety of sources such as reports, documents, correspondence, other offices, etc., under general direction;
e. Advises secretaries in subordinate offices on new procedures; requests information needed from the subordinate office(s) for periodic or special conferences, reports, inquiries, etc. Shifts clerical staff to accommodate workload needs.

LR-4

Handles a wide variety of situations and conflicts involving the clerical or administrative functions of the office which often cannot be brought to the attention of the executive. The executive sets the overall objectives of the work. Secretary may participate in developing the work deadlines. Duties include or are comparable to the following:

a. Composes correspondence requiring some understanding of technical matters; may sign for executive when technical or policy content has been authorized;
b. Notes commitments made by executive during meetings and arranges for staff implementation. On own initiative, arranges for staff member to represent organization at conferences and meetings, establishes appointment priorities, or reschedules or refuses appointments or invitations;
c. Reads outgoing correspondence for executive's approval and alerts writers to any conflict with the file or departure from policies or executive's viewpoints; gives advice to resolve the problems;
d. Summarizes the content of incoming materials, specially gathered information, or meetings to assist executive; coordinates the new information with background office sources; draws attention to important parts or conflicts;
e. In the executive's absence, ensures that requests for action or information are relayed to the appropriate staff member; as needed, interprets request and helps implement action; makes sure that information is furnished in timely manner; decides whether executive should be notified of important or emergency matters.

Exclude secretaries performing any of the following duties:

Acts as office manager for the executive's organization, e.g., determines when new procedures are needed for changing situations and devises and implements alternatives; revises or clarifies procedures to eliminate conflict or duplication; identifies and resolves various problems that affect the orderly flow of work in transactions with parties outside the organization.

Prepares agenda for conferences; explains discussion topics to participants; drafts introductions and develops background information and prepares outlines for executive or staff member(s) to use in writing speeches.

Advises individuals outside the organization on the executive's views on major policies or current issues facing the organization; contacts or responds to contacts from high-ranking outside officials (e.g., city or State officials, members of Congress, presidents of national unions or large national or international firms, etc.) in unique situations. These officials may be relatively inaccessible, and each contact typically must be handled differently, using judgment and discretion.

Criteria For Matching Secretaries By Level

Level of Secretary's Supervisor	Level of Secretary's Responsibility			
	LR-1	LR-2	LR-3	LR-4
LS-1	I	II	III	IV
LS-2	I	III	IV	V
LS-3	I	IV	V	V

STENOGRAPHER

(4623: Stenographer)

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings.

Excluded from this definition are:

a. Trainee positions not requiring a fully qualified stenographer;
b. Secretaries providing the principal secretarial support in an office and performing more responsible and discretionary tasks, as described in LR-1 through LR-4 in the secretary definition above;
c. Stenographers who take dictation involving the frequent use of a wide variety of technical or specialized vocabulary. Typically this kind of vocabulary cannot be learned in a relatively short period of time, e.g., a month or two;
d. Stenographers, such as shorthand reporters, who record material verbatim at hearings, conferences, or similar proceedings.

Stenographer I

Takes and transcribes dictation, receiving specific assignments along with detailed instructions on such requirements as form and presentation. The transcribed material is typically reviewed in rough draft, and the final transcription is reviewed for conformance with the rough draft. May maintain files, keep simple records, or perform other relatively routine clerical tasks.

Stenographer II

Takes and transcribes dictation determining the most appropriate format. Performs stenographic duties requiring significantly greater independence and responsibility than Stenographer I. Supervisor typically provides general instructions. Work requires a thorough working knowledge of general business and office procedures and of the specific business operations, organizations, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; answering routine questions, etc.

TYPIST

(4624: Typist)

Uses a manual, electric, or automatic typewriter to type various materials. Included are automatic typewriters that are used only to record text and update and reproduce previously typed items from magnetic cards or tape. May include typing of stencils, mats, or similar materials for use in duplicating processes. May do clerical work involving little special training, such as keeping simple records, filing records and reports, or sorting and distributing incoming mail.

Excluded from this definition is work that involves:

a. Typing directly from spoken material that has been recorded on disks, cylinders, belts, tapes, or other similar media;
b. The use of varitype machines, composing equipment, or automatic equipment in preparing material for printing; and
c. Familiarity with specialized terminology in various keyboard commands to manipulate or edit the recorded text to accomplish revisions, or to perform tasks such as extracting and listing items from the text, or transmitting text to other terminals, or using "sort" commands to have the machine reorder material. Typically requires the use of automatic equipment which may be either computer linked or have a programmable memory so that material can be organized in regularly used formats or preformed paragraphs which can then be coded and stored for future use in letters or documents.

Typist I

Performs *one or more of the following:* Copy typing from rough or clear drafts; or routine typing of forms, insurance policies, etc.; or setting up simple standard tabulations; or copying more complex tables already set up and spaced properly.

Typist II

Performs *one or more of the following:* Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

WORD PROCESSOR

(4624: Typist)

Primary duty is to operate word-processing equipment to enter, store, retrieve, change, and present text or tabulations. Produces a variety of printed copy such as letters, documents, or reports. May enter regularly used formats or stored paragraphs that are organized and coded for future use. Recorded texts can be changed by rearranging paragraphs, replacing words, shifting lines, etc.

(Word-processing equipment typically has a full- or partial-page video-display screen (CRT) and a separate printer. The equipment may be integrated with a digital computer, have telecommunications capabilities, and also have capabilities for adding to or upgrading features. Automatic or electronic typewriters with limited text-editing capabilities, and often with single-line electronic display "windows," are not considered word-processing equipment.)

Excluded from this definition are:

a. Workers whose primary function is to enter a data base for purposes other than composition (see key entry operator);
b. Workers who use equipment and data base for purposes such as accounting, inventory control, sales, or original writing and editing;

c. Workers responsible for preparation of published reports, including page layout or selection of different type sizes.

Positions are classified into levels on the basis of the following definitions:

Word Processor I

Performs tasks requiring a knowledge of the word-processing equipment and familiarity with the formats and forms used in the establishment. Proficiency in grammar, spelling, and punctuation is also required to produce printed materials accurately. May refer problems to supervisor or higher level processor, or refer to operating manual.

Word Processor II

Work at this level requires considerable classroom or on-the-job training and may involve working directly with task originator rather than through supervisor. In addition to work assignments described for level I, duties include *one or more of the following:*

a. Uses the more sophisticated features of the equipment to carry out complex assignments, such as sorting, merging, and organizing text, or maintaining files;
b. Applies knowledge of specialized terminology or foreign language;
c. Tests new applications and procedures; or
d. Trains lower level processors.

KEY ENTRY OPERATOR

(4793: Data entry keyer)

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disk encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

NOTE: Excluded are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

ACCOUNTING CLERK

(4712: Bookkeeper and accounting and auditing clerk)

Performs one or more accounting tasks such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc.; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV require a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

Accounting Clerk I

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

Accounting Clerk II

Performs one or more routine accounting clerical operations, such as: Examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts and items to be posted; and coding documents in accordance with a chart (listing) of accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

Accounting Clerk III

Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

Accounting Clerk IV

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: Reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

NOTE: Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

PAYROLL CLERK

(4713: Payroll and timekeeping clerk)

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves *most of the following*: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a nonautomated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

FILE CLERK

(4696: File clerk)

Files, classifies, and retrieves material in an established filing system. May perform clerical and manual tasks required to maintain files. Positions are classified into levels on the basis of the following definitions:

File Clerk I

Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards material; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

File Clerk II

Sorts, codes, and files unclassified material by simple (subject matter) headings or partly classified material by finer subheadings. Prepares simple related index and cross-reference aids. As requested, locates clearly identified material in files and forwards material. May perform related clerical tasks required to maintain and service files.

File Clerk III

Classifies and indexes file material such as correspondence, reports, technical documents, etc., in an established filing system containing a number of varied subject matter files. May also file this material. May keep records of various types in conjunction with the files. May lead a small group of lower level file clerks.

MESSENGER

(4745: Messenger)

Performs various routine duties such as running errands, operating minor office machines such as sealers or mailers, opening mail, distributing mail on a regularly scheduled route or in a familiar area, and other minor clerical work. May deliver mail that requires some special handling, e.g., mail that is insured, registered, or marked for special delivery.

Excluded are positions which include any of the following as significant duties:

a. Operating motor vehicles;
b. Delivering valuables or security-classified mail when the work requires a continuing knowledge of special procedures for handling such items;
c. Weighing mail, determining postage, or recording and controlling registered, insured, and certified mail in the mail room;
d. Making deliveries to unfamiliar or widely separated buildings or points which are not part of an established route; or
e. Directing other workers.

ORDER CLERK

(4664: Order clerk)

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgment of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order. *Exclude workers paid on a commission basis or whose duties include any of the following:* Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

Order Clerk I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

Order Clerk II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

RECEPTIONIST
(4645: Receptionist)

Greets visitors, determines nature of visits, and directs visitors to appropriate persons. Receptionist duties may also include providing information, making appointments, answering a telephone (other than switchboard or console), keeping a log of visitors, and issuing visitor passes. May also perform typing or other routine clerical duties which may occupy a major portion of time, and are usually performed at the reception desk.

This classification excludes workers operating a telephone switchboard or console, performing guard duties, or performing more difficult clerical duties.

SWITCHBOARD OPERATOR
(4732: Telephone operator)

Operates a telephone switchboard or console used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls. May provide information to callers, record and transmit messages, keep record of calls placed and toll charges. Besides operating a telephone switchboard or console, may also type or perform routine clerical work (typing or routine clerical work may occupy the major portion of the worker's time, and is usually performed while at the switchboard or console). Chief or lead operators in establishments employing more than one operator are excluded. For an operator who also acts as a receptionist, see Switchboard operator-receptionist.

SWITCHBOARD OPERATOR-RECEPTIONIST
(4645: Receptionist)

At a single-position telephone switchboard or console, acts both as an operator—see Switchboard operator—and as a receptionist. Receptionist's work involves such duties as greeting visitors; determining nature of visitor's business and providing appropriate information; referring visitor to appropriate person in the organization or contacting that person by telephone and arranging an appointment; keeping a log of visitors.

Professional and Technical

NOTE: The following descriptions for computer systems analysts, programmers, and operators are derived from job descriptions developed for the National Survey of Professional, Administrative, Technical, and Clerical Pay (PATC). For the most part, they are comparable to the PATC descriptions for systems analysts and programmers levels I to IV and computer operators levels I to III. The level IV computer operator description is comparable to the combined levels IV, V, and VI PATC descriptions.

COMPUTER SYSTEMS ANALYST
(171:Computer systems analyst)

Analyzes business or scientific problems for resolution through electronic data processing. Gathers information from users, defines work problems, designs a system of computer programs and procedures to resolve the problems, and develops complete specifications (precise descriptions) to enable computer programmers to prepare required programs. May write the computer programs.

NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.

Excluded are:

a. Trainees who receive detailed directives and work plans, select authorized procedures for use in specific situations, and seek assistance for deviations and problems;
b. Positions which require a bachelor's degree in a specific scientific field (other than computer science); however, positions are potential matches where the required degree may be from any of several possible scientific fields;
c. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;
d. Computer systems analysts dealing primarily with system software which provides basic services for processing other work; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software;
e. Top technical experts above level IV who develop broad unprecedented computer systems and/or conduct critical studies central to the success of large organizations having extensive technical or highly diversified computer requirements; and
f. Supervisors responsible for, or participating in hiring, firing, curtailing projects, reorganizing, or reallocating resources.

Positions are classified into levels on the basis of the following definitions:

Computer Systems Analyst I

Initial assignments are designed to expand practical experience in applying systems analysis techniques and procedures. Works independently carrying out factfinding and analysis of a single activity or routine problem. Applies established procedures where nature of system, feasibility, computer equipment, and programming language have already been decided. Adapts guides to specific situations. May solve routine user problems by modifying the existing system following clear precedents.

Supervisor defines objectives, priorities, and deadlines. Obtains advice where precedents are unclear or not available.

May direct technicians and others who assist in specific assignments.

Computer Systems Analyst II

Works independently developing or modifying a system of several varied sequences or formats where the nature of the system is predetermined. Recognizes probable interaction of related computer systems and predicts impact of a change in assigned system.

Typical duties include reviewing project proposals; gathering facts; analyzing data, preparing project synopses comparing alternatives; preparing specifications for programs; resolving processing problems; coordinating work with programmers; and orienting users.

Work requires competence in most phases of systems analysis and knowledge of system software and work processes.

May direct lower level analysts on assigned work. *OR*

Works on a segment of a complex data processing system as described for level III. Works independently on routine assignments and receives instruction and guidance on complex assignments.

Computer Systems Analyst III

Works independently maintaining and modifying complex systems or developing new subsystems. Systems typically input data from diverse sources and have multiple users.

Typical duties include guiding users in formulating requirements; analyzing project proposals; arbitrating conflicts between users; recommending optimum approach; and developing systems design. May serve as lead analyst directing and integrating the work of one or two lower level analysts.

Computer Systems Analyst IV

As a team or project leader, provides complete systems design in a highly complex area. The systems design establishes the framework from feasibility studies to post-implementation evaluation. May serve as the technical authority for a design area. At least one team member performs work at level III. *AND/OR*

As a staff specialist or consultant, resolves unique and unyielding systems problems using new technology. May be assisted on project by other analysts or technicians.

COMPUTER PROGRAMMER

(397:Programmer)

Converts specifications (precise descriptions) of business or scientific problems into a sequence of detailed instructions to solve the problems by digital computer. Draws program flow charts to describe the processing of data and develops the precise steps and processing logic which, when entered into the computer in coded language, cause the manipulation of data to achieve desired results. Tests and corrects programs and prepares instructions for operators who control the computer during production runs. Modifies programs to increase operating efficiency or to respond to changes in work processes; maintains records to document program development and revisions.

NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.

Excluded are:

a. Positions which require a bachelor's degree in a specific scientific field (other than computer science); however, positions are potential matches where the required degree may be from any of several possible scientific fields;

b. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;

c. Computer programmers (e.g., systems programmers) dealing primarily with system software which provides basic services for processing other work; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software;

d. Employees with significant responsibility for supervising workers other than programmers or functions other than computer programming;

e. Supervisors responsible for, or participating in hiring, firing, curtailing projects, reorganizing, or reallocating resources; and

f. Team leaders and consultants above level IV who define highly complex programming problems and direct the development of computer programs for their solution, *AND/OR*

Team leaders and consultants who design improvements for highly complex programming problems where few precedents exist.

Positions are classified into levels on the basis of the following definitions:

Computer Programmer I

Receives classroom and/or on-the-job training in computer programming concepts and requirements of the subject-matter field. Performs elementary programming tasks such as drawing flow charts, writing operator instructions, or coding and testing simple programs.

Detailed step-by-step instructions are given; work is closely monitored in progress and reviewed in detail upon completion. Deviations must be authorized by supervisor.

May perform routine programming tasks as described in level II under close supervision. Also may perform elementary factfinding concerning a specific work process.

Computer Programmer II

Maintains and modifies routine programs. Work progresses from initial assignments designed to develop competence to work requiring a knowledge of established procedures and data processing requirements. Typical tasks include amending flow charts; coding, testing, and documenting changes; and writing routine new programs.

May evaluate simple interrelationships in programs and obtain information from users to modify routine programs.

Assignments have clear-cut and complete specifications and the format of the final product is very similar to that of the inputs. Work is monitored in progress and reviewed upon completion.

Computer Programmer III

As a fully qualified computer programmer, develops, modifies, and maintains conventional programs. Uses standard procedures and detailed specifications to independently devise program logic (may include translating mathematical notation), modify interrelationship of files and records, diagnose and correct errors, test and document work, and write computer operator instructions. The programs developed are typically linked to several other programs, with a variety of input records and varied formats produced in the output.

In addition, may analyze a single activity or routine problem when the nature of the programs, feasibility, and type of computer language and equipment have already been determined. Completed work is reviewed for conformance to standards, timeliness, and efficiency. May also guide or instruct lower level programmers, technicians, and others who assist on assignments. *OR*

Under close supervision, works on complex programs as described in level IV.

Computer Programmer IV

As an expert programmer, independently develops, modifies, and maintains complex programs which produce several interrelated but different products. Programs use data from diverse sources and have multiple users. Tests, documents, and writes operating instructions for all work.

May perform programming analysis such as investigating the feasibility of developing alternate programs, assisting users in defining needs, or participating on an EDP and user team working on large and complicated programs.

Completed work is reviewed for timeliness, compatibility with other work, and effectiveness in meeting requirements. May function as team leader of a few lower level programmers or technicians on assigned work.

COMPUTER OPERATOR

(4612:Computer operator)

Monitors and operates the control console of either a main-frame digital computer or a group of mini-computers, in accordance with operating instructions, to process data. Work is characterized by the following:

- Studies operating instructions to determine equipment setup needed;
- Loads equipment with required items (tapes, cards, paper, etc.);
- Switches necessary auxiliary equipment into system;
- Starts and operates console;
- Diagnoses and corrects equipment malfunctions;
- Reviews error messages and makes corrections during operation or refers problems;
- Maintains operating record.

May test run new or modified programs and assist in modifying systems or programs. Included within the scope of this definition are fully qualified computer operators, trainees working to become fully qualified operators, and lead operators providing technical assistance to lower level positions.

Excluded are:

a. Workers operating small computer systems where there is little or no opportunity for operator intervention in program processing and few requirements to correct equipment malfunctions;
b. Peripheral equipment operators and remote terminal or computer operators who do not run the control console of either a main-frame digital computer or a group of mini-computers (see peripheral equipment operator); and
c. Workers using the computer for scientific, technical, or mathematical work when a knowledge of the subject matter is required.

Positions are classified into levels on the basis of the following definitions:

Computer Operator I

Receives on-the-job training in operating the control console (sometimes augmented by classroom training). Works under close personal supervision and is provided detailed written or oral guidance before and during assignments. As instructed, resolves common operating problems. May serve as an assistant operator working under close supervision or performing a portion of a more senior operator's work.

Computer Operator II

Processes scheduled routines which present few difficult operating problems (e.g., infrequent or easily resolved error conditions). In response to computer output instructions or error conditions, applies standard operating or corrective procedure. Refers problems which do not respond to preplanned procedure. May serve as an assistant operator, working under general supervision.

Computer Operator III

Processes a range of scheduled routines. In addition to operating the system and resolving common error conditions, diagnoses and acts on machine stoppage and error conditions not fully covered by existing procedures and guidelines (e.g., resetting switches and other controls or making mechanical adjustments to maintain or restore equipment operations). In response to computer output instructions or error conditions, may deviate from standard procedures if standard procedures do not provide a solution. Refers problems which do not respond to corrective procedures.

Computer Operator IV

Resolves a variety of nonstandard problems (e.g., frequent new programs, applications, and procedures). Problems may require unusual equipment connections and channel configurations. May also provide technical assistance to lower level operators and use knowledge of program languages, computer features, and software systems in assisting programmers, systems analysts, and other users in resolving problems. Completed work is usually submitted to users without supervisory review.

PERIPHERAL EQUIPMENT OPERATOR

(4613: Peripheral equipment operator)

Operates peripheral equipment which directly supports digital computer operations. Such equipment is uniquely and specifically designed for computer applications, but need not be physically or electronically connected to a computer. Printers, plotters, card read/punches, tape readers, tape units or drives, disk units or drives, and data display units are examples of such equipment.

The following duties characterize the work of a peripheral equipment operator:

a. Loading printers and plotters with correct paper; adjusting controls for forms, thickness, tension, printing density, and location; and unloading hard copy;
b. Labeling tape reels, disks, or card decks;
c. Checking labels and mounting and dismounting designated tape reels or disks on specified units or drives;
d. Setting controls which regulate operation of the equipment;
e. Observing panel lights for warnings and error indications and taking appropriate action;
f. Examining tapes, cards, or other material for creases, tears, or other defects which could cause processing problems.

This classification excludes workers (1) who monitor and operate a control console (see Computer operator) or a remote terminal, or (2) whose duties are limited to operating decollaters, bursters, separators, or similar equipment.

COMPUTER DATA LIBRARIAN

(4696: File clerk)
(4754: Stock and inventory clerk)

Maintains library of media (tapes, disks, cards, cassettes) used for automatic data processing applications. The following or similar duties characterize the work of a computer data librarian: Classifying, cataloging, and storing media in accordance with a standardized system; upon proper requests, releasing media for processing; maintaining records of releases and returns; inspecting returned media for damage or excessive wear to determine whether or not they need replacing. May perform minor repairs to damaged tapes.

DRAFTER

(372: Drafting occupation)

Performs drafting work requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, mechanical and electrical equipment, piping and duct systems and other similar equipment, systems, and assemblies. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings. Drawings are used to communicate engineering ideas, designs, and information in support of engineering functions.

The following are excluded when they constitute the primary purpose of the job:

a. Design work requiring the technical knowledge, skill, and ability to conceive or originate designs;
b. Illustrating work requiring artistic ability;
c. Work involving the preparation of charts, diagrams, room arrangements, floor plans, etc.;
d. Cartographic work involving the preparation of maps or plats and related materials, and drawings of geological structures; and
e. Supervisory work involving the management of a drafting program or the supervision of drafters.

Positions are classified into levels on the basis of the following definitions:

Drafter I

Working under close supervision, traces or copies finished drawings, making clearly indicated revisions. Uses appropriate templates to draw curved lines. Assignments are designed to develop increasing skill in various drafting techniques. Work is spot-checked during progress and reviewed upon completion.

NOTE: Exclude drafters performing elementary tasks while receiving training in the most basic drafting methods.

Drafter II

Prepares drawings of simple, easily visualized parts of equipment from sketches or marked-up prints. Selects appropriate templates and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy.

Drafter III

Prepares various drawings of parts and assemblies, including sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the industry. Familiar or recurring work is assigned in general terms; unfamiliar assignments include information on methods, procedures, sources of information, and precedents to be followed. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results; more complex revisions are produced from sketches which clearly depict the desired product.

Drafter IV

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or designer may suggest methods of approach or provide advice on unusually difficult problems.

NOTE: Exclude drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

Drafter V

Works closely with design originators, preparing drawings of unusual, complex or original designs which require a high degree of precision. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally perform engineering design work in interpreting general designs prepared by others or in completing missing design details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

ELECTRONICS TECHNICIAN

(3711: Electrical and electronic engineering technologist and technician)
(615: Electrical and electronic equipment repairer)

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling, troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) Electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

Positions are classified into levels on the basis of the following definitions:

Electronics Technician I

Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test

readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot-checked, but is given detailed review when new or advanced assignments are involved.

Electronics Technician II

Applies comprehensive technical knowledge to solve complex problems (i.e., those that typically *can* be solved solely by properly interpreting manufacturers' manuals or similar documents) in working on electronic equipment. Work involves: A familiarity with the interrelationships of circuits; and judgment in determining work sequence and in selecting tools and testing instruments, usually less complex than those used by the level III technician.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for specific compliance with accepted practices and work assignments. May provide technical guidance to lower level technicians.

Electronics Technician III

Applies advanced technical knowledge to solve unusually complex problems (i.e., those that typically *cannot* be solved solely by reference to manufacturers' manuals or similar documents) in working on electronic equipment. Examples of such problems include location and density of circuitry, electromagnetic radiation, isolating malfunctions, and frequent engineering changes. Work involves: A detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, tracing relationships in signal flow; and regularly using complex test instruments (e.g., dual trace oscilloscopes, Q-meters, deviation meters, pulse generators).

Work may be reviewed by supervisor (frequently an engineer or designer) for general compliance with accepted practices. May provide technical guidance to lower level technicians.

REGISTERED INDUSTRIAL NURSE

(29: Registered nurse)

A registered nurse gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve *a combination of the following*: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

(6422: Carpenter)

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

(615: Electrical and electronic equipment repairer)
(6432: Electrician)

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves *most of the following*: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE PAINTER

(6442: Painter, construction and maintenance)

Paints and redecorates walls, woodwork, and fixtures. Work *involves the following*: Knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead, and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MACHINIST

(613: Industrial machinery repairer)

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves *most of the following*: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting

standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

(613: Industrial machinery repairer)

Repairs machinery or mechanical equipment. Work involves *most of the following*: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

MAINTENANCE PIPEFITTER

(645: Plumber, pipefitter, and steamfitter)

Installs or repairs water, steam, gas, or other types of pipe and pipefittings. Work involves *most of the following*: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

MILLWRIGHT

(6178: Millwright)

Installs new machines or heavy equipment, and dismantles and installs machines or heavy equipment when changes in plant layout are required. Work involves *most of the following*: Planning and laying out work; interpreting blueprints or other specifications; using a variety of handtools and rigging; making standard shop computations relating to stresses, strength of materials, and centers of gravity; aligning and balancing equipment; selecting standard tools, equipment, and parts to be used; and installing and maintaining in good order power transmission equipment such as drives and speed reducers. In general, the millwright's work normally requires a rounded training and experience in the trade acquired through a formal apprenticeship or equivalent training and experience.

MOTOR VEHICLE MECHANIC

(611: Vehicle and mobile equipment mechanic and repairer)

Repairs, rebuilds, or overhauls major assemblies of internal combustion automobiles, buses, trucks, or tractors. Work involves most of the following: Diagnosing the source of trouble and determining the extent of repairs required; replacing worn or broken parts such as piston rings, bearings, or other engine parts; grinding and adjusting valves; rebuilding carburetors; overhauling transmissions; and repairing fuel injection, lighting, and ignition systems. In general, the work of the motor vehicle mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles or who only perform minor repair and tuneup of motor vehicles. It does, however, include fully qualified journeymen mechanics even though most of their time may be spent on minor repairs and tuneups.

GENERAL MAINTENANCE WORKER

(6179: Mechanic and repairer, not elsewhere classified)

Performs general maintenance and repair of building structures and their mechanical, electrical, or sanitary systems. May also perform general maintenance and repair of machinery. Work requires a basic practical knowledge of several maintenance trades in order to perform most of the following: Keeping in good repair building woodwork; replacing electrical switches, fixtures, and motors; occasional painting or touching up of structure or equipment; repairing or replacing plumbing fixtures; and replacing broken window panes.

Excluded are positions requiring a formal apprenticeship or equivalent training in one or more crafts. Also excluded are workers participating in such a program.

MAINTENANCE TRADES HELPER

(863: Helper; mechanic and repairer)
(864: Helper; construction trades)

Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

MACHINE-TOOL OPERATOR (TOOLROOM)

(6813: Machinist)
(731-2: Metalworking and plasticworking machine setup operator)

Specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and performing difficult machining operations which require complicated setups or a high degree of accuracy; setting up machine tool or tools (e.g., install cutting tools and adjust guides, stops, working tables, and other controls to

handle the size of stock to be machined; determine proper feeds, speeds, tooling, and operation sequence or select those prescribed in drawings, blueprints, or layouts); using a variety of precision measuring instruments; making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. May be required to select proper coolants and cutting and lubricating oils, to recognize when tools need dressing, and to dress tools. In general, the work of a machine-tool operator (toolroom) at the skill level called for in this classification requires extensive knowledge of machine-shop and toolroom practice usually acquired through considerable on-the-job training and experience.

For cross-industry wage study purposes, this classification does *not* include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER

(6811: Tool and die maker)

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does *not* include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

STATIONARY ENGINEER

(6931: Stationary engineer)

Operates and maintains one or more systems such as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water, or electricity. Duties involve: Observing and interpreting readings on gauges, meters, and charts which register various aspects of the system's operation; adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery, and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

The classification excludes head or chief engineers in establishments employing more than one engineer; workers required to be skilled in the repair of electronic control equipment; workers in establishments producing electricity, steam, or heated or cooled air primarily for sale; and boiler tenders.

Material Movement and Custodial

TRUCKDRIVER

(821: Motor vehicle operator)

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Salesroute and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

Truckdriver, light truck
(straight truck, under 1 1/2 tons, usually 4 wheels)
Truckdriver, medium truck
(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)
Truckdriver, heavy truck
(straight truck, over 4 tons, usually 10 wheels)
Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

(4753: Traffic, shipping and receiving clerk)

Performs *clerical and physical* tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

Shippers typically are responsible for most of the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

Receivers typically are responsible for most of the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; preparing and keeping records of goods received.

For wage study purposes, workers are classified as follows:

Shipper
Receiver
Shipper and receiver

WAREHOUSEMAN

(4754: Stock and inventory clerk)

As directed, performs a *variety* of *warehousing* duties which require an *understanding of the establishment's storage plan.* Work involves *most of the following*: Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing,

stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

Exclude workers whose *primary* duties involve shipping and receiving work (see Shipper and receiver and Shipping packer), order filling (see Order filler), or operating power trucks (see Power-truck operator).

ORDER FILLER

(4754: Stock and inventory clerk)

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

SHIPPING PACKER

(8761: Hand packer and packager)

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and *may involve one or more of the following*: Knowledge of various items of stock in order to verify content; selection of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. *Packers who also make wooden boxes or crates are excluded.*

MATERIAL HANDLING LABORER

(8726: Freight, stock, and material mover, not elsewhere classified)

Performs physical tasks to transport or store materials or merchandise. Duties involve *one or more of the following:* Manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelving, or placing items in proper storage locations; or transporting goods by handtruck, cart, or wheelbarrow.

Excluded from this definition are workers whose primary function involves:

a. Participating directly in the production of goods (e.g., moving items from one production station to another or placing them on or removing them from the production process);
b. Stocking merchandise for sale;
c. Counting or routing merchandise;
d. Operating a crane or heavy-duty motorized vehicle such as forklift or truck;
e. Loading and unloading ships (longshore workers); or
f. Traveling on trucks beyond the establishment's physical location to load or unload merchandise.

POWER-TRUCK OPERATOR

(8318: Industrial truck and tractor equipment operator)

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by type of powertruck, as follows:

Forklift operator
Power-truck operator (other than forklift)

GUARD

(5144: Guard and police, except public service)

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motor vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions.

Guards employed by establishments which provide protective services on a contract basis are included in this occupation.

For wage study purposes, guards are classified as follows:

Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties require minimal training. Commonly, the guard is not required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly, the guard is required to demonstrate continuing physical fitness and proficiency with firearms or other special weapons.

JANITOR, PORTER, OR CLEANER

(5244: Janitor and cleaner)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve *a combination of the following*: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

Area Wage Survey Summaries

The following areas are surveyed periodically under contract to the Employment Standards Administration of the U.S. Department of Labor for its use in administering the Service Contract Act of 1965. Reports on the surveys shown below are available at no cost from any of the Bureau's regional offices while supplies last.

Alaska (statewide)
Albany, GA
Albany-Schenectady-Troy, NY
Albuquerque, NM
Alexandria-Leesville, LA
Alpena-Standish-Tawas City, MI
Ann Arbor, MI
Asheville, NC
Atlantic City, NJ
Augusta, GA-SC
Austin, TX[1]
Bakersfield, CA
Baton Rouge, LA
Battle Creek, MI
Beaumont-Port Arthur and Lake Charles, TX-LA
Biloxi-Gulfport and Pascagoula-Moss Point, MS
Binghamton, NY
Birmingham, AL
Bloomington-Vincennes, IN
Bremerton-Shelton, WA
Brunswick, GA
Cedar Rapids, IA
Champaign-Urbana-Rantoul, IL[1]
Charleston, SC[1]
Chattanooga, TN-GA
Cheyenne, WY
Clarksville-Hopkinsville, TN-KY
Colorado Springs, CO
Columbia-Sumter, SC
Columbus, GA-AL
Columbus, MS
Connecticut (statewide)
Dayton-Springfield, OH
Daytona Beach, FL
Decatur, IL[1]
Des Moines, IA
Dothan, AL
Duluth, MN-WI
El Paso-Las Cruces-Alamogordo, TX-NM
Eugene-Springfield-Medford-Roseburg-Klamath Falls-Grants Pass, OR
Fayetteville, NC
Fort Lauderdale-Hollywood-Pompano Beach and West Palm Beach-Boca Raton-Delray Beach, FL
Fort Smith, AR-OK
Fort Wayne, IN
Gadsden and Anniston, AL
Goldsboro, NC
Grand Island-Hastings, NE
Green Bay, WI[2]
Greensboro-Winston-Salem-High Point, NC[3]
Greenville-Spartanburg, SC
Harrisburg-Lebanon-Carlisle, PA
Jacksonville, FL
Knoxville, TN
LaCrosse-Sparta, WI
Laredo, TX
Las Vegas-Tonopah, NV
Lexington-Fayette, KY
Lima, OH
Little Rock-North Little Rock, AR
Logansport-Peru, IN
Lorain-Elyria, OH
Lower Eastern Shore, MD-VA-DE
Macon, GA
Madison, WI
Maine (statewide)
Manhattan-Junction City, KS
Mansfield, OH
McAllen-Edinburg-Mission and Brownsville-Harlingen, TX
Melbourne-Titusville-Palm Bay, FL
Meridian, MS
Montana (statewide)
Montgomery, AL
Nashville, TN
New Bern-Jacksonville, NC
New Hampshire (statewide)
Norfolk-Virginia Beach-Newport News, VA
North Dakota (statewide)
Northern New York
Northwest Texas
Northwestern Florida
Oklahoma City, OK
Orlando, FL[1]
Oxnard-Ventura, CA
Peoria, IL
Pine Bluff, AR
Portsmouth-Chillicothe-Gallipolis, OH
Poughkeepsie-Orange County-Kingston, NY
Providence, RI
Pueblo, CO
Puerto Rico
Raleigh-Durham, NC
Reno, NV
Riverside-San Bernardino, CA[1]
Salina, KS
Salinas-Seaside-Monterey, CA
Sandusky, OH
Santa Barbara-Santa Maria-Lompoc, CA
Savannah, GA
Selma, AL
Sherman-Denison, TX
Southeastern Massachusetts
South Dakota (statewide)
Southwest Virginia
Spokane, WA
Springfield, IL
Stockton, CA
Tacoma, WA
Topeka, KS
Tucson-Douglas, AZ
Tulsa, OK
Upper Peninsula, MI
Vallejo-Fairfield-Napa, CA
Vermont (statewide)
Virgin Islands of the U.S.
Waco and Killeen-Temple, TX
Waterloo-Cedar Falls, IA
West Virginia (statewide)
Western Massachusetts
Wichita, KS
Wichita Falls-Lawton-Altus, TX-OK
Yakima-Richland-Kennewick-Pasco-Walla Walla-Pendleton, WA-OR

[1] In 1988, this area is scheduled to be surveyed under the Bureau's regular area wage survey program. See inside back cover.

[3] Scheduled to be surveyed in this program for the first time in 1988. In 1986, the area was surveyed under the Bureau's regular area wage survey program. See inside back cover.

ALSO AVAILABLE—

An annual report on salaries for such jobs as accountants, auditors, public accountants, chief accountants, attorneys, programmers and systems analysts, job analysts, directors of personnel, buyers, chemists, engineers, engineering technicians, drafters, computer operators, and clerical employees is available. Order as BLS Bulletin 2290, *National Survey of Professional, Administrative, Technical, and Clerical Pay: Private Service Industries, March 1987* (Price $5), from: Bureau of Labor Statistics, Publications Sales Center, P.O. Box 2145, Chicago, IL 60690, or Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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